# Validation Report

## 51, 53 and 55 Headfort Street, Greenslopes Queensland

Department of Veteran Affairs

**Reference: 784-BNEEN282781 Validation Report**

6 September 2024

# DEPARTMENT OF VETERAN AFFAIRS 51, 53 AND 55 HEADFORT STREET, GREENSLOPES QLD

Validation Report

**Report reference number: 784-BNEEN282781 Validation Report**
6 September 2024

## PREPARED FOR

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**Restriction on Disclosure and Use of Data**
This report should be read in conjunction with the attached “Important information about your Tetra Tech Coffey Environmental Report”

# EXECUTIVE SUMMARY[1]

The Department of Veteran Affairs (DVA) is planning the redevelopment of 114 Newdegate Street, Greenslopes (Lot 123-125 RP46047) ("the Site").

The Site is listed on the Environmental Management Register (EMR) for Hazardous Contaminants as a result of organochlorine pesticides (OCPs) being previously detected in soil. The Site is not subject to a Site Management Plan (SMP) and the EMR listing does not include a Site Suitability Statement.

DVA has a requirement to remediate and remove the Site from the EMR.

Remediation of the Site was undertaken between August 2023 and December 2023. Remediation involved the excavation and disposal of approximately 1,400 tonnes of soil material to an average excavation depth of approximately 0.45 m over the Site.

Soil materials were disposed to licenced landfills under approved Disposal Permits.

The assessment of validation data undertaken in this Validation Report has confirmed that the remedial objective has been achieved, and the Site can be considered to be suitable for for unrestricted land use, including Land Use A (residential with garden/accessible soil; childcare centres, preschools, and primary schools with access to soil) and sensitive land uses listed in Schedule 24 of the Planning Regulation 2017, and can be removed from the EMR.

[1] This executive summary must be read in the context of the full report and the attached limitations.

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# ACRONYMS/ABBREVIATIONS

| Acronyms/Abbreviations | Definition |
|---|---|
| ACM | Asbestos-containing materials |
| AF | Asbestos fines |
| ARCP | Asbestos Removal Control Plan |
| ARCC | Australian Red Cross Centre |
| AMP | Asbestos Management Plan |
| AHD | Australian Height Datum |
| ANZECC | Australian and New Zealand Environment and Conservation Council |
| ARMCANZ | Agriculture and Resource Management Council of Australia and New Zealand |
| ASLP | Australian Standard Leaching Procedure |
| $C_6$-$C_{36}$ | Hydrocarbon chain length fraction |
| bgl | below ground level |
| bgs | Below ground surface |
| btoc | Below top of casing |
| BCC | Brisbane City Council |
| BTEXN | Benzene, toluene, ethylbenzene, xylenes and naphthalene |
| CLA | Site Auditor |
| CLID | Contaminated Land Investigation Document |
| CLM | Contaminated Land Management |
| COC | Chain of Custody |
| COPC | Contaminant of Potential Concern |
| CSM | Conceptual Site Model |
| DAWE | Department of Agriculture, Water and the Environment |
| DDD | Dichlorodiphenyldichloroethane |
| DDE | Dichlorodiphenyldichloroethylene |
| DDT | Dichlorodiphenyltrichloroethane |
| DESI | Queensland Department of Environment and Science and Innovation |
| DO | Dissolved Oxygen |
| DQI | Data Quality Indicator |
| DQO | Data Quality Objective |
| DSI | Detailed Site Investigation |
| DVA | Department of Veteran Affairs |
| EMR | Environmental Management Register |
| EPA | Environmental Protection Authority |
| FA | Fibrous asbestos |
| HIL | Health-based Investigation Level |
| HSL | Health Screening Level |
| IL | Investigation Levels |
| IP | Interface Probe |

| Acronyms/Abbreviations | Definition |
|---|---|
| LAA | Licenced asbestos assessor |
| LARC | Licenced asbestos removal contractor |
| LOR | Limit of Reporting |
| µg/L | micrograms per litre |
| m bgs | m below ground surface |
| mg/kg | milligrams per kilogram |
| mS/cm | milliSiemens per centimetre |
| mV | millivolts |
| MW | Monitoring Well |
| NATA | National Association of Testing Authorities |
| NEPC | National Environment Protection Council |
| NEPM | National Environment Protection Measure (Assessment of Site Contamination) |
| NHMRC | National Health and Medical Research Council |
| OCP | Organochlorine Pesticides |
| PAH | Polycyclic Aromatic Hydrocarbons |
| PFAS NEMP | Per-and poly-fluoroalkyl substances National Environmental Management Plan |
| PPE | Personal protective equipment |
| PSI | Preliminary Site Investigation |
| QA | Quality Assurance |
| QC | Quality Control |
| RAP | Remediation Action Plan |
| RFAI | Request for Additional Information |
| RPE | Respiratory protective equipment |
| RPD | Relative Percent Difference |
| SAQP | Sampling, Analysis and Quality Plan |
| SOP | Standard Operating Procedures |
| SMP | Site Management Plan |
| SQP | Suitably Qualified Person |
| SWL | Standing Water Level |
| TTC | Tetra Tech Coffey |
| TRH | Total Recoverable Hydrocarbons |
| WA DOH | Western Australian Department of Health |
| WQM | Water Quality Meter |

# 1. INTRODUCTION

The Department of Veteran Affairs (DVA) is planning the redevelopment of 51, 53 and 55 Headfort Street, Greenslopes, Queensland, 4120[2] (Lot 123-125 RP46047) ("the Site"). The location of the Site is shown in Figure 1, Appendix A.

The Site is listed on the Environmental Management Register (EMR) for Hazardous Contaminants as a result of organochlorine pesticides (OCPs) being previously detected in soil. The Site is not listed on the Contaminated Land Register and is not subject to a Site Management Plan (SMP). The EMR listing does not include a Site Suitability Statement. The result included on the EMR listing (refer to Appendix K.1) states the following:

> *"HAZARDOUS CONTAMINANT - This site has been subject to a hazardous contaminant. Refer to the summary given below. Elevated concentrations of organochlorine pesticides (DDD/DDT/DDE[3] and Aldrin/Dieldrin) identified on site above the nominated investigation levels."*

Previous investigations have confirmed the presence of the OCPs Aldrin + Dieldrin which exceed the Schedule B1 *National Environment Protection (Assessment of Site Contamination) Measure 1999* (NEPM) Health-based Investigation Levels for residential areas (HIL-A). OCPs are associated with historical application of termite barriers using termiticides around buildings. Fragments of asbestos containing material (ACM) and asbestos fines have also been reported in soil which exceed NEPM guidelines for recreational areas.

The Site is owned by the DVA and is therefore located on Commonwealth land. The Commonwealth Department of Agriculture, Water and the Environment (DAWE) is advising DVA, at the Commonwealth level, on their environmental requirements and obligations. DAWE has determined the demolition and removal of the contaminated soil on the site is a controlled action under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) and required the removal of the Site from the EMR as practicable.

DVA commissioned Tetra Tech Coffey (TTC) to prepare this Contaminated Land Investigation Document (CLID) in the form of a Validation Report to facilitate the removal of the Site from the EMR.

The Validation Report incorporates the finding of previous investigations completed in 2013, 2019, 2021 and 2022 and remediation and validation activities completed in 2023. The Validation Report is intended for use by DVA, the Site Auditor (Louise Cartwright, Epic Environmental) and the Department of Environment and Science and Innovation (DESI) (the Administering Authority). This Validation Report is to be read in-conjunction with limitations in Section 10.

Key information relating to the submission of this Validation Report is summarised in the following table.

**Table 1-1 Key Information**

| Item | Description |
|---|---|
| **Client / Site Owner** | Repatriation Commission (Department of Veteran Affairs) |
| **Site Address** | 51, 53 and 55 Headfort Street, Greenslopes, Queensland, 4120 |
| **Property Description** | Lot 123, 124 and 125 RP46047 (the Site) |
| **EMR Status** | The Site is listed on the EMR; EMR Site IDs include:<br>• 148512 (Lot 123 RP46047)<br>• 148513 (Lot 124 RP46047) |

[2] The Site has historically been referred to as 114 Newdegate Street, Greenslopes
[3] Note DDT - Dichlorodiphenyltrichloroethane; DDD – Dichlorodiphenyldichloroethane; and DDE - Dichlorodiphenyldichloroethylene

| Item | Description |
|---|---|
| | • 148514 (Lot 125 RP46047) |
| **CLID Type** | Validation Report. Voluntary submission of a CLID comprising an assessment of potential site contamination – Removing the Site from the EMR. This CLID provides final information about the Site and its intended use. No more CLIDs are forecast in the foreseeable future for the same Site and its same intended use. |
| **Suitably Qualified Person** | Jeremy Wicks, Tetra Tech Coffey |
| **DESI-Approved Site Auditor** | Louise Cartwright, Epic Environmental |

## 1.1 STRUCTURE OF VALIDATION REPORT

Section 3 provides a summary of the Previous Investigations of the Site.

Section 4 provides a description of the Site, site history, the existing environment, a summary of contamination and the pre-remediation conceptual site model (CSM)

Section 5 summarises the key components of the Remediation Action Plan (RAP) for the Site and reported in Tetra Tech Coffey (2023) *114 Newdegate Street, Greenslopes QLD Remediation Action Plan, 23 August 2003.* A copy of the RAP is included in Appendix L.3.

Section 6 provides a description of the remediation works undertaken at the Site and the results of validation sampling. Section 7 provides the post-remediation conceptual site model (CSM) for the Site, along with conclusions of the remediation validation in Section 8.

Section 9 provides the Site Suitability Statement for the Site based on the completed remedial works and validation sampling.

## 1.2 OBJECTIVES

The objective of DVA is to remove the Site from the EMR. The objective for the remediation of the Site is therefore to remove the Site from the EMR.

## 1.3 SCOPE OF WORKS

The Scope of Works undertaken by Tetra Tech Coffey in remediation and validation of the Site included:

- Preparation of the RAP
- Preparation of Disposal Permit and Waste Levy Exemption applications for submission by the Principal Contractor (refer to Section 6.1 for information on the Principal Contractor)
- Provide technical support to the Principal Contractor and DVA in regard to contaminated land investigation and management
- Complete site inspections during remediation to check compliance against the RAP and EMP prepared by the Principal Contractor
- Complete air monitoring during remediation (asbestos and OCPs dust monitoring)
- Collection of validation samples
- Preparation of this Validation Report.

## 1.4 CROSS-REFERENCE TABLE

The tables below provide a cross references for sections within this document that address each of the content requirements listed in the DESI (2023) *Contaminated land investigation document – approved form, Version 1.03*

| Table B1: Site History Requirement | NEPM Schedule B2 Reference | CLID Reference |
|---|---|---|
| **Site Plans** | 3.3.1 | Appendix A |
| **Historical Maps** | 3.3.1 | Section 4.2.3 and Appendix K.2 |
| **Aerial Photographs** | 3.3.1 | Section 4.2.2 and Appendix K.2 |
| **Land use zoning** | 3.3.2 | Section 4.1 and Appendix K.12 |
| **Present owners, occupiers and current users of the site** | 3.3.3 | Section 4.1 and 4.2.1 |
| **Previous owners and occupiers of the site** | 3.3.4 | Section 4.2.1 |
| **Previous activities/uses** | 3.3.5 | Section 3 and 4.2 |
| **Services to the property** | 3.3.6 | Section 4.2.8, Appendix A, Appendix K.15 |
| **Previous and present buildings and structures** | 3.3.7 | Section 3, 4.2, Appendix A, Appendix K.2 |
| **Industrial processes carried out of the site and products manufactured** | 3.3.8 | Section 4.2.9 and 4.2.10 |
| **Chemical storage/transfer areas** | 3.3.9 | Section 4.2.9 |
| **Raw materials used** | 3.3.10 | Section 4.2.9 |
| **Intermediate products** | 3.3.11 | Section 4.2.9 |
| **Spills, losses, incidents and accidents** | 3.3.12 | Section 4.2.9 |
| **Discharges to land and water** | 3.3.13 | Section 4.2.9 |
| **Wastes produced** | 3.3.14 | Section 4.2.9 |
| **Power generation** | 3.3.15 | Section 4.2.9 |
| **Waste disposal locations** | 3.3.16 | Section 4.2.9 |
| **Imported fill** | 3.3.16 | Section 4.2.10, 6.8 and 6.9.5 |
| **Earthmoving activities** | 3.3.17 | Section 4.2.10 and 6 |
| **Interview information** | 3.3.18 | Section 3 and 4.2.4 |
| **Sources of information** | 3.3.19 | Entire Document |

| Table B1: Site History Requirement | NEPM Schedule B2 Reference | CLID Reference |
|---|---|---|
| **Does the CLID describe the environmental setting?** | N/A | Section 4.4 |
| **Does the CLID describe local geology and hydrogeology?** | N/A | Section 3, 4.4.3 to 4.4.7, and 6.9 |
| **Does the site have acid sulfate soils?** | N/A | Section 4.4.5 |
| **Does the CLID correctly identify and describe all relevant environmental values including prescribed environmental values and environmental objectives for surface waters, wetlands and groundwaters?** | N/A | Section 4.4 |
| **Were site inspection(s) undertaken in accordance with the NEPM Schedule B2?**<br>**Does the CLID describe those site inspection(s)?** | N/A | Section 3, 4.2, 6.3 and 6.9 |

| Table B2: Conceptual Site Model Requirement | NEPM Schedule B2 Reference | CLID Reference |
|---|---|---|
| **The CSM was prepared and presented in written format and illustrated with suitable graphics and flow diagrams.** | 4.1 | Section 4.6, 7 and Appendix A |
| **The complexity of the CSM corresponded to the scale and complexity of the known or potential contamination impacts** | 4.1 | Section 4.6, 7 and Appendix A |
| **The CSM was iteratively developed throughout the assessment process.** | 4.2 | Section 3, 4.6, 7, Appendix A, Appendix L |
| **The CSM considered all essential elements.** | 4.3 | Section 4.6, 7 and Appendix A |
| **The CSM identified and assessed all data gaps and uncertainties** | 4.4 | Section 3, 4.6, 7 and Appendix A |

| Table B3: Data Collection and Analysis Requirement | NEPM Schedule B2 Reference | CLID Reference |
|---|---|---|
| **Data quality objectives (DQOs) process has been followed and systematically developed and aligned with the objectives of the site assessment.** | Sch B2 s5.2 & 18 | Section 3.4.3, 5.3, Appendix G and Appendix L |
| **A well-developed sampling and analysis quality plan was implemented.** | Sch B2 s5.3 | Section 3.4, Appendix L.1 and Appendix L.3 |
| **Quality control checks and procedures were sufficient, and in adequate quantities, to measure the effects of all influences on sample integrity, accuracy and precision** | Sch B2 s5.4, s19 Sch B3 | Section 3.2, 3.3, 3.4, 6.10, Appendix F, Appendix G, Appendix L.2 |
| **All potential contaminants of concern were adequately sampled and assessed in accordance with recognised guidelines, in locations indicated via site history and for all relevant media.** | Sch B2 s5.5 Sch B3 | Section 3, 4.5, 6, Appendix C, Appendix I, Appendix L |
| **The completeness, validity and usability of data was adequately assessed.** | Sch B2 s5.6, s19 Sch B3 | Section 3, 6.10, Appendix F, Appendix L.2 |
| **The sampling design and execution was appropriate for collecting sufficient and accurate quality assured data from all relevant media** | Sch B2 s6 to s9 & s19 Sch B3 Sch B6 | Section 3, 6.10, Appendix F, Appendix L, Appendix I.2 |
| **Assessment criteria were appropriate to determine the human health and ecological risks of the contamination and protection of any relevant groundwater resources.** | Sch B1 Sch B6 | Section 3, 5.4, Appendix J and Appendix L |
| **Assessment criteria included environmental objectives for environmental values as prescribed under the EP Act and subordinate legislation for the locality.** | EP Act and other legislation | Section 3, 5.4, Appendix J and Appendix L |
| **The nature, and vertical and lateral extent of contamination has been established in all relevant media including off-site delineation if indicated by contaminant concentrations at the relevant land boundaries.** | Sch B2 s6 to s11 Sch B6 | Section 3, 4.5, 6, Appendix C, Appendix L.2 |
| **Adequate Data Quality Indicators (DQIs) were established and an adequate assessment was carried out?** | Sch B2 s13.1, s14, s19 Sch B3 | Section 6.10, Appendix G2, Appendix L |
| **Statistical analysis (if applicable)** | Sch B2 s13.2 | Section 5.4 and Appendix J.1 |
| **If contaminant fate and transport modelling was undertaken, has it conformed with section 10 of the NEPM Schedule B2?** | N/A | Not applicable. Refer to Section 3.4, 4.4.7, 4.6, 5.4, 7, and Appendix L |

| Table B4 - Report Presentation Requirement | NEPM Schedule B2 Reference | CLID Reference |
|---|---|---|
| **Report presentation** | 14.2 | Entire report |
| **Graphics presentation** | 14.3 | Appendix A |
| **Site plans** | 14.4 | Appendix A |
| **Contamination data** | 14.5 | Appendix A, Appendix L |
| **Tabulated laboratory analytical results** | 14.6 | Tabulated data: Section 4.5, Appendix 6.9, Appendix C, Appendix L<br>Laboratory reports: Appendix E, Appendix L.2<br>QAQC protocols/results: Section 3.2, 3.3, 3.4, 6.10, Appendix F, Appendix G, Appendix L.2 |
| **Bore logs and field records** | 14.7 | Appendix B, Appendix L.2 |
| **Photography** | 14.8 | Appendix D |
| **QA/QC documentation included** | 14.9 | Appendix F, Appendix G, Appendix L.2 |
| **Has the environment been protected during all site assessment and excavation works and has it been documented in accordance with section 15 of the NEPM Schedule B2?** | N/A | Section 5, 6, Appendix J, Appendix L |

| Table B5: Site Suitability Outcome Requirement | NEPM Schedule B2 Reference | CLID Reference |
|---|---|---|
| **Outcome for site suitability statement for each lot on plan of land parcel provided?** | s.389 | Section 9, Appendix M |
| **Where in the CLID is/are the site suitability statement(s)?** | s.389 | Section 9, Appendix M |

| Table B6: Statutory Requirements for a Site Investigation Report or Validation Report | EP Act s. 389 Subsection Reference | CLID Reference |
|---|---|---|
| **Reasons the land's particulars are recorded in a relevant land register.** | (2)(a)(i) | Section 1, 4.1, 4.2.5, 4.3.1, 8, Appendix K.1 and Appendix K.3 |
| **Description of all surface and subsurface infrastructure on the land.** | (2)(a)(ii) | Section 3, 4.2, Appendix A, Appendix K.15, Appendix L |

| Table B6: Statutory Requirements for a Site Investigation Report or Validation Report | EP Act s. 389 Subsection Reference | CLID Reference |
|---|---|---|
| **Description of the surrounding area, including each of the matters required by subsections ss. 389(2)(iii)(A) to (E).** | (2)(a)(iii) (A) to (E) | Section 4.1, 4.2, Appendix A, Appendix K, Appendix L |
| **Details of waste disposed of or stored on the land, including each of the matters required by subsections ss. 389(2)(iv)(A) and (B).** | (2)(a)(iv) (A) & (B) | Section 4.2.9, 4.4.4 and 4.2.10 |
| **Description of the geology and hydrogeology of the land.** | (2)(a)(v) | Section 3, 4.4.3 to 4.4.6, Section 9, Appendix K.2 |
| **Details of any environmentally relevant activities or notifiable activities carried out on the land, including materials used and waste produced during the activities.** | (2)(a)(vi) | Section 4.2.9 and 4.3.2 |
| **Details of any earthworks carried out on the land, including the materials used and waste produced during the earthworks.** | (2)(a)(vii) | Section 4.2.10 and 6 |
| **Contamination levels before and after any remediation work on the land.** | (2)(a)(viii) | Section 3, 4.5, 6.9, Appendix 3, Appendix L |
| **A statement of whether the land is prescribed contaminated land.** | (2)(c)(i) | Section 9, Appendix M |
| **If the land is contaminated, a statement of the extent to which the land is contaminated.** | (2)(c)(ii) | Not Applicable<br>Refer to Section 9, Appendix M |

| Table B7: Draft Site Management Plan (SMP) Requirement | EP Act s. 389 Subsection Reference | CLID Reference |
|---|---|---|
| **CLID is not a Draft Site Management Plan (SMP)** | s. 389(3) | N/A<br>Section 9, Appendix M |

# 2. TECHNICAL FRAMEWORK

This Validation Report has been developed in general accordance with the following legislation, industry standards, codes of practice, and guidance documents, where relevant:

**Commonwealth**

- *Environmental Protection and Biodiversity Conservation Act 1999* (EPBC Act)
- *Environmental Protection and Biodiversity Conservation Regulations 2000*
- *National Environment Protection Council (NEPC) Act 1994* (NEPC Act 1994).

**Queensland**

- *Environmental Protection Act 1994* (EP Act)
- Environmental Protection (Air) Policy 2019
- *Environmental Protection (Noise) Policy 2019*
- *Environmental Protection (Water and Wetland Biodiversity) Policy 2019*
- *Environmental Protection Regulation 2019*
- *Waste Reduction and Recycling Act 2011*
- *Waste Reduction and Recycling Regulation 2011*

**Guidelines**

- *National Environment Protection Council, National Environment Protection (Assessment of Site Contamination) Measure, 1999* (amended April 2013) (NEPM).
- Queensland Department of Environment and Science (DES, 2023) *Queensland Auditor Handbook for Contaminated Land Module 6: Content requirements for contaminated land investigation documents, certifications and audit reports. Version 2.03*
- Queensland Department of Environment and Science (DES, 2023) *Contaminated land investigation document—approved form, ESR/2023/6339 • Version 1.03 • 19 MAY 2023*.
- Western Australian Department of Health, *Guidelines for the Assessment, Remediation and Management of Asbestos Contaminated Sites in Western Australia, 2021* (WA DOH 2021).

Redevelopment of the Site is a Controlled Action under the Commonwealth EPBC Act 1994, and requires the removal of the property from the EMR and the removal of soil with OCPs and ACM to the laboratory limits of reporting /detection (LOR) as practicable.

Removal of the Site from the EMR is subject to the requirements of the Queensland EP Act 1994 and subordinate legislation. Removal of the Site from the EMR requires this Validation Report including a Site Suitability Statement, and Site Auditor Certification.

# 3. PREVIOUS INVESTIGATIONS

Details of the previous investigations at the Site is described in the following reports, which are summarised in the following sections:

- Coffey (2013) *Department of Veteran Affairs Phase 1 Contaminated Land Assessment, 114 Newdegate Street, Greenslopes Queensland, 24 September 2013* (PSI Report)
- Coffey (2013) *Department of Veteran Affairs Phase 2 Contaminated Land Assessment, 114 Newdegate Street, Greenslopes Queensland, 4 November 2013* (Phase 2 Report)
- Coffey (2019) *Department of Veteran Affairs Delineation of Organochlorine Soil Impacts, 114 Newdegate Street, Greenslopes Queensland, 3 December 2019* (2019 Report)
- Tetra Tech Coffey (2022) *Department of Veteran Affairs Asbestos Paint Assessment, 114 Newdegate Street Greenslopes, 27 April 2022*.
- Tetra Tech Coffey (2022) *114 Newdegate Street Greenslopes Remediation Planning, Supplementary Investigation (Supplementary Investigation), 11 May 2022*.

Soil sampling locations from the aforementioned previous investigations are shown in Figure 2, Appendix A. A summary of the ground conditions encountered at the sample locations is provided in Appendix K.5. Tabulated data from previous investigation locations is provided in Appendix C.7.1 and Appendix C.7.2. Tabulated data in Appendix C.7.1 is compared to the investigation levels described in Section 3.4.6.

A collated summary of previous investigation data including a comparison to current guidelines (investigation levels described in Section 3.4.5) is provided in Section 4.5.

## 3.1 COFFEY (2013) DEPARTMENT OF VETERAN AFFAIRS PHASE 1 CONTAMINATED LAND ASSESSMENT, 114 NEWDEGATE STREET, GREENSLOPES QUEENSLAND, 24 SEPTEMBER 2013

### 3.1.1 Overview

This investigation included the completion of Preliminary Site Investigation (PSI) based on the requirements of Section 3 (Preliminary Investigations) of the *ASC NEPM Schedule B2 Guideline on Site Characterisation*.

### 3.1.2 Scope of Works

The PSI was completed in 2013. The objective of the PSI was to identify current and historical activities with the potential to cause contamination. The scope of the PSI comprised:

- Desktop review of publicly available records including:
  - historical aerial photographs
  - current/historical title records
  - site layout plans and previous investigation reports
  - licences and notices (hazardous material storage, trade waste and dangerous goods)
  - service plans (“dial before you dig” search)
  - State groundwater database
  - EMR/CLR records
  - regional sensitive ecosystem database
  - right for information search with Brisbane City Council (BCC)
  - publicly available topographic, geological and hydrogeological maps.

- Site walkover to:
  - observe current site layout and uses of the property
  - general description of current/previous site operations
  - identification of current and historical (where possible) uses of adjoining properties and potentially sensitive receptors nearby
  - confirmation of validity of publicly available information
  - assessment for visual signs of ground contamination
  - details and locations of current and former underground services
  - observations of discharges to land, water and air
  - observations of waste disposal locations
  - local site knowledge of current and former owners or occupiers, and/or employees.
- Preliminary sampling at the Site comprising:
  - collection of four surface soil sample locations (SS01 to SS04) in a judgemental sampling pattern targeted at areas of potential contamination (refer to Table 3-1) based on the methodology summarised in Table 3-2
  - collection of soil samples at the surface by hand utilising a new nitrile glove
  - recording of soil/fill types and any evidence of potential contamination
  - analysis of four samples at a National Association of Testing Authorities (NATA) accredited laboratory for total recoverable hydrocarbons (TRH), polycyclic aromatic hydrocarbons (PAHs), OCPs and organophosphate pesticides (OPPs), metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc) and asbestos in soil.

Sample locations are summarised in Table 3-1, and the sampling methodology in Table 3-2.

**Table 3-1 Sample Locations**

| Sample ID | Description of Sample Location |
|---|---|
| SS01 | Area of salt accumulation[4] beneath the southern building. |
| SS02 | Within an unsealed area immediately below peeling paint and adjacent to timber potentially treated with pesticides and fibro cement sheeting. |
| SS03 | Beneath the northern building targeting asbestos and potential pesticide use. |
| SS04 | Wheelie bin storage area and area of compost pile and stressed vegetation. |

Note: description of sample locations based on description included in Table D of the PSI Report. All samples collected at ground surface (0-0.1 m bgs).

**Table 3-2 Summary Soil Sampling Methodology**

| Activity | Detail / Comment |
|---|---|
| Sample collection | A total of four soil samples were collected at selected locations across the site. Samples were collected by hand at the surface using a dedicated, new disposable nitrile glove.<br>Samples were placed in laboratory prepared sample containers and appropriately sealed. |
| Sample preservation | Samples were placed in laboratory supplied jars and were stored in insulated chilled containers while on site and in transit to the laboratory. |

[4] The salt accumulation referred to in the investigation was not observed in subsequent investigations in the vicinity of SS01 or elsewhere at the Site.

| Activity | Detail / Comment |
|---|---|
| **Sample submission** | COC documentation was completed at the time of sample collection and accompanied the samples to the laboratory. The record of COC was attached with laboratory certificates included in the report on the PSI. |
| **Sample analysis** | Based on the field observations a total of 4 soil samples were submitted to NATA accredited laboratory Eurofins MGT for analysis. |
| **Analytical Suite** | The 4 soil samples were analysed for:<br>• TRH, OCPs/OPPs, PAHs<br>• Metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc)<br>• Asbestos. |

### 3.1.3 Key Findings

Key findings of the PSI included the following.

#### Desk Study

- The Site had been developed prior to 1944 (earliest available aerial photography).
- The Commonwealth of Australia had interests in the property since 1901 when it held a three-year lease.
- the War Services Home Commissioner became the registered owner of the Site in 1920 and the Site was transferred to the Repatriation Commission in 1945.
- At the time of the PSI the Site was not registered on the EMR.
- No dangerous/hazardous goods licences or environmental authorities were associated with the Site.
- A representative of the site operator Australian Red Cross (Ms Kathryn Cunneen) was not aware of any spills or releases of hazardous contaminants, pest infestations, major refurbishments, building fires or storage of hazardous materials other than minor storage of cleaning chemicals and paints.

#### Site Walkover

- Fragments of asbestos containing materials (ACM) on the ground surface were observed beneath both site buildings and within the front vegetated area[5]. The approximate location of the vegetated area where the fragment of ACM was observed is shown in Figure 3, Appendix A.
- Paint on the buildings was in poor condition and peeling and has the potential to contain lead and other metals.
- Evidence of former termite infestations was present underneath the southern building. Pesticides may have been used to remove the termite infestation.
- There is potential for pesticide use in the north eastern corner of the site where stressed vegetation was present and a neighbouring property had an orchid shade house[6] (Lot 1 SP306735). The location of the orchard shade house is shown in the 2016 aerial image in the Lotsearch Report included in Appendix K.2.

#### Preliminary Sampling

- Zinc was reported in two of the four samples with concentration which exceeded the adopted ecological investigations levels (NEPM 1999 ESLs Urban residential and public open space, Fine Soil). Concentrations of zinc did not exceed adopted human health guidelines (NEPM HIL-A).

[5] A single piece of asbestos (10 cm x 7.5 cm) was observed at the front of the northern building beside a tree. This location has inferred to be along the western side of the accommodation building near a former tree. The tree was removed prior to the commencement of demolition.
[6] Note the orchard shade house is no longer present. Landuse on this property is now high density residential.

- Detectable concentrations of organochlorine pesticides were present in all four soil samples analysed. The organochlorine pesticides detected is consistent with historical treatment of pests such as termites. The concentrations of all organochlorine pesticides detected were below the nominated investigation levels (NEPM HIL-A).
- Asbestos fibres were detected in soil samples SS01 (0.007% weight/weight) and SS02 (0.02% weight/weight). These concentrations of asbestos fibres are above the recommended investigation level for fibrous asbestos or asbestos fines in soil for all site uses. Therefore, the detected concentrations have the potential to impact on current and future site users.

The conceptual site model (CSM) identified potentially complete exposure pathways to existing site users (maintenance workers) and future site users (construction workers and future land users) for asbestos and organochlorine pesticides. The CSM did not consider there to be an ecological receptor on-site or in the immediate vicinity of the Site.

The report on the PSI made recommendations for further investigation of the Site based on the findings of the investigation to further define the extent of contamination and management/remediation of the Site.

### 3.1.4 Comments on Investigation

The PSI was undertaken in general accordance with Section 3 (Preliminary Investigations) of the *ASC NEPM Schedule B2 Guideline on Site Characterisation*.

Notable data gaps from the PSI included:

- historical use of the Site prior to 1944
- whether paints used on the buildings were lead based paints
- whether fill materials were present on the Site
- the extent and significance of contamination on the Site.

Notable limitations of the PSI included:

- the investigation did not include Data Quality Objectives / Data Quality Indicators
- the limited soil sampling program did not include an assessment of field and laboratory quality assurance / quality controls (QA/QC) information.
- historical aerial imagery included in the report was small-scale and may have limited interpretation of the historical use of the Site.
- buildings on the Site limited where the investigation could be undertaken.

## 3.2 COFFEY (2013) DEPARTMENT OF VETERAN AFFAIRS PHASE 2 CONTAMINATED LAND ASSESSMENT, 114 NEWDEGATE STREET, GREENSLOPES QUEENSLAND

### 3.2.1 Overview

This investigation was undertaken to further investigate the extent of contamination on the Site.

### 3.2.2 Scope of Works

The scope of the investigation comprised:

- Field screening of ten locations for the presence of ACM.
- Emu bob of exposed surface soils for ACM.
- Collection of soil samples from twelve targeted locations and analysis of ten samples for asbestos fibres in soil.
- Collection and analysis of soil samples from eleven locations for both metals and organochlorine pesticides and two samples for cation exchange capacity (CEC) and pH.
- Collection and analysis of quality control samples.
- Interpretation of the data and preparation of the site investigation report titled Coffey (2013) *Department of Veteran Affairs Phase 2 Contaminated Land Assessment, 114 Newdegate Street, Greenslopes Queensland*.

Sample locations are summarised in Table 3-3, and the sampling methodology in Table 3-4.

**Table 3-3 Sample Locations**

| Location ID | Description of Sample Location |
|---|---|
| HA01 | Collected adjacent to a tree stump under the Main Hall building. Potential location of pesticide use. |
| HA02 | Collected from adjacent to the inside of the southern wall of the Main Hall building. Potential location of pesticide use. |
| HA03 | |
| HA04 | |
| HA05 | Collected from the eastern side of exposed soil beneath the Main Hall building to provide coverage of the exposed soil. Potential location of pesticide use. |
| HA06/SA11 | Collected from the eastern side beneath the Accommodation building where access could be gained. Potential location of pesticide use. |
| HA07/SA12 | Central accessible area beneath the Accommodation building. Potential location of pesticide use. |
| HA08/SA13 | Western accessible area beneath the Accommodation building. Potential location of pesticide use. |
| HA09 | Located in garden bed immediately adjacent to the southern external wall of the Accommodation building. Location of potential pesticide use and paint flakes. |
| HA10 | Located in garden bed immediately adjacent to the southern external wall of the Accommodation building. Location of potential pesticide use and paint flakes. |
| HA11 | Collected from the location of the Phase 1 sample location SS02 to allow for analysis of CEC and pH to assess metal concentrations against Environmental Investigation Levels. |
| SA01/A01 | Immediately surrounding Accommodation building covering areas where asbestos containing materials were present at the surface. |
| SA02/A02 | |
| SA03/A03 | |
| SA04/A04 | |
| SA05/A05 | |

| Location ID | Description of Sample Location |
|---|---|
| SA06/A06 | Adjacent to southern wall of Main Hall building in garden bed where fill material had been placed and asbestos containing materials identified at the surface. |
| SA07/A07 | Exposed soil from beneath the Main Hall building where asbestos containing materials were identified at the surface and to provide delineation of Phase 1 sample location SS01. |
| SA08/A08 | |
| SA09/A09 | Adjacent to northern wall of Main Hall building in garden bed. |
| SA10/A10 | |
| SA11 | Beneath Accommodation building in accessible areas where asbestos containing materials were identified at the surface. |
| SA12 | |
| SA13 | |

Note: description of sample locations based on description included in Table A of the Phase 2 Report. It is also noted that two samples (SG01 and SG02) appear to have been erroneously included on Figure 2 of the Phase 2 Report. No further records of these samples are included in the Phase 2 Report.

**Table 3-4 Summary of Soil Sampling Methodology**

| Activity | Detail / Comment |
|---|---|
| **Sample collection** | Soil samples were collected from the surface and 0.5m or auger refusal at each location from a hand trowel and/or hand auger cuttings.<br>An approximate weight of 1.5kg was collected for samples selected for asbestos fines analysis.<br>Sample collection was undertaken in accordance with *AS4482.1-2005 Guide to the investigation and sampling of sites with potentially contaminated soil, Part 1: Non-volatile and semi-volatile compounds*. Dedicated disposable nitrile gloves were used for soil sample collection. Samples were placed in laboratory prepared sample containers and appropriately sealed. |
| **Asbestos field screening** | Soil was removed from the selected locations using a shovel. A 9.5L bucket was filled with representative soil form selected depths and weighed. The contents of the bucket were then passed through a <7mm sieve and hand shaken. ACM was then visually identified, collected and weighed and logged. The residual contents of the sieve were then spread across a brightly coloured board and visually inspected, and ACM fragments (if identified) collected.<br>In addition to field screening an emu bob/visual inspection of unsealed areas was completed to identify and identified ACM collected and recorded. |
| **Reusable sampling equipment** | Non-disposable sampling equipment was decontaminated between each location to minimise the possibility of cross contamination between samples and to minimise the risk of impacting sample integrity. Non-disposable sampling equipment used as part of this investigation included hand auger and hand trowel.<br>The decontamination process included:<br>• removal of adhered materials using brushes;<br>• washing of the equipment with laboratory grade detergent solution; and<br>• rinsing with de-ionised water.<br>Appropriateness of the decontamination procedure adopted was confirmed through collection and analysis of rinsate samples. |
| **Sample preservation** | Samples were placed in laboratory supplied jars and were stored in insulated chilled containers while on site and in transit to the laboratory. |
| **Sample submission** | COC documentation was completed at the time of sample collection and accompanied the samples to the laboratory. The record of COC was attached with laboratory certificates included in the investigation report. |

| Activity | Detail / Comment |
|---|---|
| **Sample analysis** | Samples were submitted to NATA accredited laboratories for analysis. Eurofins MGT were used as the primary laboratory and ALS Environmental (ALS) was the nominated secondary laboratory. |
| **Analytical suite** | A total of eleven primary soil samples were analysed for:<br>• OCPs and metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc) in samples: HA01; HA02; HA03; HA04; HA05; QC01 (DUP HA05); QC01A (TRIP HA05); HA06/SA11; HA07/SA12; HA08/SA13; HA09; HA10 and HA11.<br>• A total of fifteen samples were analysed for asbestos in samples: SA01/A01; SA04/A04; SA06/A06; SA06/A06; SA07/A07; SA08/A08; SA09/A09; SA10/A10; SA11/A11; SA13/A13; Main Hall (under building); Accommodation Building (under building); Unsealed External Areas and a composite of A01, A04, A10, and a composite of A06 and A10. |
| **QA/QC** | Collection of field QA/QC samples including intra/inter laboratory duplicate samples (~10%) and a rinsate sample, which were analysed for chemical contaminants. |

### 3.2.3 Key Findings

Key findings of the investigation included the following:

- the presence of ACM in soil beneath the Main Hall Building and Accommodation Building which exceeded the nominated investigation levels (HIL-A).
- AF (chrysotile) detected in one soil sample with levels below the nominated investigation levels.
- OCPs (aldrin + dieldrin) with concentrations which exceeded the nominated investigation levels (NEPM HIL-A) along the southern wall of the Main Hall, and beneath and along the southern wall of the Accommodation Building.
- the presence of anthropogenic materials including slag in soil material at sample sites located on the southern boundary of the Site (A05 and A06), sample locations to the west of the Accommodation Building (A04), and beneath and north of the Main Hall (A08 and A10).
- contamination on the Site poses a potential unacceptable risk to human health and ecological receptors and required remediation/management.
- the CSM identified potentially complete exposure pathways to existing site users (maintenance workers) and future site users (construction workers and future land users) for asbestos and organochlorine pesticides. The CSM did not consider there to be an ecological receptor on-site or in the immediate vicinity of the Site.

### 3.2.4 Comments on Investigation

The investigation was undertaken with consideration to the *ASC NEPM Schedule B2 Guideline on Site Characterisation*.

Notable data gaps from the investigation included:

- The extent and significance of contamination on the Site including OCPs and asbestos
- Borelogs included in the investigation report identified the presence of fill materials. The presence of fill materials was not discussed in the investigation report. The extent (lateral/vertical) and characteristics of fill materials on the site is a data gap.

Notable limitations of the investigation included:

- The investigation did not include Data Quality Objectives / Data Quality Indicators.
- The sampling methodology was limited to hand excavation / hand auguring which limited the depth of sampling, and the visual characterisation of fill materials. Excavation of mechanically excavated test pits

is preferable where fill materials are present, and ACM is a contaminant of concern. Hand sampling methods limited the depth of samples to <0.5 m below ground surface (bgs).

- Records of the emu bob and ACM removed from the Site was not included in the investigation report.
- The assessment of ACM in soil, focussed on surface soil materials where ACM had been observed in ground surface. A limitation/data gap of the investigation was the presence of ACM in fill materials.
- Buildings on the Site limited where the investigation could be undertaken.
- The CSM did not appear to consider an assessment of groundwater/surface water, and on-site ecological receptors which may be potentially present.

## 3.3 COFFEY (2019) DEPARTMENT OF VETERAN AFFAIRS DELINEATION OF ORGANOCHLORINE SOIL IMPACTS, 114 NEWDEGATE STREET, GREENSLOPES QUEENSLAND

### 3.3.1 Overview

The objective of this investigation was to provide additional delineation and characterisation of the previously identified organochlorine impact on the Site.

### 3.3.2 Scope of Works

The scope of the investigation comprised:

- Setting out soil sample locations
- Collection of soil samples on the 1 October 2019 including:
  - 17 locations (sample numbers 1 through to 12 and 14 through to 18) that provide additional lateral delineation of the identified organochlorine impacted zone; one of the proposed locations (13) was inaccessible as the area was sealed with concrete;
  - 5 locations (sample numbers 6P, 7P. 9P, 13P and 14P) where the previous investigation identified OCPs impacts above the nominated investigation levels to provide confirmation of the analytical results and allow collection of samples from underlying soil profiles to assist with vertical delineation; and
  - surface soil samples from 3 locations including 32, 34 and 36 for delineation purposes.

The location of these samples are shown in Figure 2, Appendix A.

- Analysis of samples at NATA certified laboratories for:
  - 46 selected samples were analysed for OCPs.
  - 2 selected samples were analysed for PAHs and metals including arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc based on field observations.
  - 12 leachate samples were analysed for leachable OCPs via toxicity characteristic leaching procedure (TCLP). TCLP analysis was undertaken for waste classification purposes and targeted samples which had elevated concentrations of OCPs. TCLP samples were undertaken on fill materials collected from the ground surface and included the following samples:
    - 6P-0.0 (replicates previous sampling location HA02)
    - 7P-0.0 (replicates previous sampling location HA03)
    - 8-0.0
    - 9-0.0
    - 9P-0.0 (replicates previous sampling location HA09)
    - 10-0.0
    - 11-0.0
    - 13P-0.0 (replicates previous sampling location HA07)
    - 14P-0.0 (replicates previous sampling location HA10)
    - 15-0.0
    - 34-0.0
    - 36-0.0

The sampling methodology is summarised in Table 3-5.

**Table 3-5 Summary of Soil Sampling Methodology**

| Activity | Detail / Comment |
|---|---|
| **Sample collection** | Soil samples were collected from each location by collecting hand trowel and hand auger cuttings. Where possible, samples were collected at depths of 0.0-0.1 and 0.25-0.5 m bgs or when a change in lithology was observed. Surface soil samples were collected using a hand trowel.<br><br>Sample collection was undertaken in accordance with ASC NEPM. Dedicated disposable nitrile gloves were used for soil sample collection. Samples were placed in laboratory prepared sample containers and appropriately sealed. |
| **Reusable sampling equipment** | Non-disposable sampling equipment was decontaminated between each location to minimise the possibility of cross contamination between samples and to minimise the risk of impacting sample integrity. Non-disposable sampling equipment used as part of this investigation included hand auger and hand trowel.<br><br>The decontamination process included:<br><br>• removal of adhered materials using brushes<br>• washing of the equipment with laboratory grade detergent solution<br>• rinsing with de-ionised water.<br><br>Appropriateness of the decontamination procedure adopted was confirmed through collection and analysis of rinsate sample. |
| **Sample preservation** | Samples were placed in laboratory supplied jars and were stored in insulated chilled containers while on site and in transit to the laboratory. |
| **Sample submission** | COC documentation was completed at the time of sample collection and accompanied the samples to the laboratory. The record of COC was included with the laboratory certificates in included in the investigation report. |
| **Sample analysis** | Samples were submitted to NATA accredited laboratories for analysis. Eurofins MGT were used as the primary laboratory and ALS was the nominated secondary laboratory. Based on the field observations a total of 46 primary soil samples were selected for laboratory analyses. |
| **Analytical Suite** | A total of 46 soil samples were analysed for:<br><br>• OCPs.<br><br>A total of two soil samples were analysed for:<br><br>• PAHs<br>• Metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc).<br><br>A total of twelve leachate samples were analysed for:<br><br>• Leachable organochlorine pesticides via toxicity characteristic leaching procedure (TCLP). |
| **QA/QC** | Collection of field QA/QC samples including intra/inter laboratory duplicate samples (~20%) field rinsate and field blank. |

### 3.3.3 Key Findings

Key findings of the investigation included the following:

- OCPs analytical results identified aldrin + dieldrin at concentrations above the nominated investigation levels primarily at locations where the building external walls intersected the ground. This is consistent with the application of termite barriers around the perimeter of buildings.
- Of the 21 samples collected and analysed for OCPs from beneath the surface (0.2 to 0.5m bgs), three samples (10 – 0.45, 11 – 0.45 and 13P – 0.2) reported concentrations of aldrin + dieldrin above the nominated investigation levels (NEPM HIL-A). These three samples were located adjacent to or immediately down gradient of the southern and western walls of the accommodation building.
- Two samples collected within slag fill material used behind the retaining wall on the southern side of the main hall building were analysed for PAHs and metals. The reported concentrations of both PAHs and metals were below the nominated investigation levels adopted for this investigation.

- Total concentrations of organochlorines were above the acceptance criteria for use of the soil as coverage material at the landfill.
- Leachable dieldrin concentrations were reported in exceedance from the allowable leaching levels for clay lined landfills in six leachate samples and in exceedance of the allowable leaching levels for double lined landfills in two leachate samples.

### 3.3.4 Comments on Investigation

The investigation was undertaken with consideration to the *ASC NEPM*.

Notable data gaps from the investigation included:

- The investigation did not further investigate fill materials including the extent (lateral/vertical) and characteristics of these materials.
- Soil samples along the eastern and northern boundary of the Site were not collected.
- Risk to groundwater on-site from leaching of contaminants

Notable limitations of the investigation included:

- The investigation did not include Data Quality Objectives / Data Quality Indicators
- The sampling methodology was limited to hand excavation / hand auguring which limited the depth of excavations, and the visual characterisation of fill materials. Excavation of mechanically excavated test pits is preferable where fill materials are present, and ACM is a contaminant of concern. Hand sampling methods limited the depth of samples to <0.5 m bgs.
- Asbestos was not included in soil analysis.
- The CSM was not updated, and the report did not consider risk to groundwater/surface water, and risk to on-site ecological receptors which may be potentially present.

## 3.4 TETRA TECH COFFEY (2022) 114 NEWDEGATE STREET GREENSLOPES REMEDIATION PLANNING, SUPPLEMENTARY INVESTIGATION, 11 MAY 2022

### 3.4.1 Overview

The investigation reported in *Tetra Tech Coffey, 2022. 114 Newdegate Street Greenslopes Remediation Planning, Supplementary Investigation, Rev 0, 11 May 2022* (Supplementary Investigation) comprised the completion of an investigation to address data gaps required for remediation planning. A copy of the report on the Supplementary Investigation is included in Appendix L.2.

The Supplementary Investigation was undertaken in accordance with Coffey (2021) *114 Newdegate Street Greenslopes Remediation Planning, Sampling, Analysis and Quality Plan, 19 July 2021* (SAQP). A copy of the SAQP has been included in Appendix L.1.

The SAQP and the report on the Supplementary Investigation were reviewed by the Site Auditor.

Specific data gaps identified in the SAQP to be addressed by the supplementary investigation included the following:

- *Previous investigations have not sampled soil materials beneath the concrete slab located along the northern half of the Accommodation Building, and beneath the concrete pavement along the eastern boundary of the Site.*
- *Elevated concentrations of zinc were found at two locations in Area 2 (SS01 and SS02). While the concentrations are below NEPM Guidelines for Parks and Open Spaces, recipient landfills may require leachability tests for waste classification purposes.*
- *The potential for contamination in the concrete slabs has not been previously investigated. OCPs have the potential to be present in concrete slabs as wells as building stumps/footings.*
- *Soil materials containing slag have been analysed however it is recommended that the slag materials be crushed and analysed.*

### 3.4.2 SAQP Areas Of Interest (AOIs)

Based on the data from previous investigations (completed in 2013 and 2019) and to segregate the investigation for the purposes of the SAQP the Site was conceptualised into three main areas of interest (AOI). The three AOIs are indicated on Figure 3-1 below and comprised:

- **Area 1**: This area includes the former Accommodation Building. OCP contamination which exceeds HIL-C guidelines has been reported predominantly in surface soil materials less than 0.2 m depth along the southern perimeter of the building, and to a lesser amount along the western and northern side of the building and within a small area within the central portion of the building. OCP contamination which exceeds HIL-C was reported in one location (11) at 0.45 m depth. Contaminated of Potential Concern (CoPC) for Area 1 included OCPs, asbestos, metals and PAHs (in association with ash/slag materials) in solid (fill/soil) media.
- **Area 2**: This area includes the former Main Hall. With the exception of a small area of OCP contamination in Area 3, OCP contamination in Area 2 is below the HIL-C guidelines. CoPC for Area 2 included included OCPs, asbestos, metals and PAHs (in association with ash/slag materials) in solid (fill/soil) media.
- **Area 3**: Area 3 is located along the southern boundary of the Site and has OCP contamination which exceeds the HIL-C guidelines in surface soil materials less than 0.2 m depth. CoPC for Area 3 included OCPs, asbestos, metals and PAHs (in association with ash/slag materials) in solid (fill/soil) media.

Further information on the data quality objectives from the SAQP is provided in 3.4.3 and the scope of the investigation in 3.4.7.

Figure 3-1 Areas of Interest

### 3.4.3 SAQP Data Quality Objectives

Data Quality Objectives from the SAQP have been reproduced as follows.

The National Environment Protection Measure (NEPM, Schedule B2 Guideline on Site Characterisation - 2013) states that the nature and quality of the data collected for a particular assessment will be determined by the Data Quality Objectives (DQOs). The NEPM and the Australian Standard AS4482.1-2005 reference the US EPA *Guidance on Systematic Planning Using the Data Quality Objectives Process* (US EPA, 2006) which defines the DQO process. The US EPA defines the process as *'a strategic planning approach based on the Scientific Methods that is used to prepare for a data collection activity. It provides a systematic procedure for defining the criteria that a data collection design should satisfy, including when to collect samples, where to collect samples, the tolerable level of decision errors for the study, and how many samples to collect.'*

The process for establishing DQOs appropriate for a project is defined by the US EPA and comprises seven steps. The DQOs have been briefly summarised in Table 3-6.

**Table 3-6: Data Quality Objectives from SAQP**

| Data Quality Objectives |
|---|
| 1. State the Problem<br>DVA is planning to redevelop the Site for park/community use. DVA has advised that it has had preliminary discussions with BCC which support the end use of the Site as a Park, and has advised that remediation of the Site to a standard suitable for Park is an appropriate remediation strategy for the Site. Previous investigations have identified OCPs and asbestos which exceed guidelines for recreational use. Review of previous investigation have identified four 'Data Gaps' which include:<br>a. Previous investigations have generally sampled from accessible areas on the Site and accordingly there are number of locations on the Site which have not been investigated. Materials within these areas require investigation to inform the planning for the redevelopment and remediation of the Site.<br>b. Elevated concentrations of zinc have previously been reported in two sample locations which have potential implications for off-site disposal to landfill. These locations require leachability (TCLP) tests to confirm landfill disposal requirements.<br>c. OCPs are potentially present in concrete slabs present on the Site as well as stumps and footings; these materials require investigation.<br>d. Slag materials are present on the Site. Samples of slag should be collected and crushed for chemical testing. |
| 2. Identify the goal of the study<br>The purpose of the investigation is to investigate the Data Gaps described in Section 5 of the SAQP included in Appendix L.1. |
| 3. Identify information inputs<br>• Previous investigations (where applicable)<br>• Field observations including the presence of visual/olfactory indicators of contamination<br>• Analytical data of sample media, and quality assurance / quality control (QA/QC) samples<br>• Outcome of QA/QC samples<br>• Nominated investigation levels. |
| 4. Define the boundary of the study<br>The study boundary is defined as Lot 123-125 RP46047 ("the Site), and the investigation of soil materials to approximately 0.5 m below ground level within the Site. The investigation will be undertaken over a period of approximately one day. |
| 5. Develop a decision rule<br>Primary and QA/QC samples will be collected and analysed by the laboratories for potential contaminants of concern (CoCs). Where contamination is identified and exceeds the nominated investigation levels for the protection of human health and/or the environment a recommendation will be made for:<br>• completion of further investigations to assess the nature and extent of OCP contamination requiring management (if required)<br>• remediation of the Site to enable the Site to be used for its intended use. |
| 6. Specify performance of acceptance criteria<br>Analytical data quality indicators are described in Section 10 of the SAQP included in Appendix L.1. |
| 7. Develop a plan for obtaining the data<br>The methodology and rationale for obtaining relevant data for the detailed site investigation is described in this plan. |

### 3.4.4 Shallow Groundwater Investigation

As an addendum to the SAQP a decision was made to install a groundwater monitoring well in the north-west of the Site (MW01, refer to Figure 2, Appendix A) to 6 m bgs to investigate whether a shallow groundwater bearing zone was present on the Site. The proposed methodology for the installation of the monitoring well was submitted to the Site Auditor on the 15 November 2021 (refer to Appendix L.1).

The location of the monitoring well in the north-western corner of the Site was selected for the following reasons:

- the north-western corner was the lowest corner of the Site (refer to Section 4.4.1) and inferred to be hydraulically down-gradient of OCP source areas at the western end of the Site in a shallow aquifer was present.
- the north-western corner of the Site was accessible by a drill rig.

Drilling of the borehole to 6 m bgs was considered sufficient depth to investigate whether a shallow groundwater bearing zone was present and near to the OCP contamination in the shallow soils on the Site.

### 3.4.5 Investigation Criteria included in SAQP

Investigation criteria included in the SAQP have been reproduced as follows.

The nominated investigation levels (ILs) have been selected to assess the suitability of the Site for its intended use for recreational purposes or removal of the Site from the EMR. Based on the CoC identified in previous investigations the nominated ILs include:

Assessment of the Site for Recreational Use

- NEPM health-based investigation levels in recreational land use (HIL-C)
- NEPM health screening level for asbestos for recreational land use (HSL-C)
- NEPM Ecological Investigation Levels (EIL) for in Urban Residential/Public Open Space land use settings
- Other guideline as required based on the findings of the investigation.

Assessment of the Site for removal from EMR

- NEPM health-based investigation levels in residential landuse with accessible gardens/soil (HIL-A)
- NEPM health screening level for asbestos for residential landuse with accessible gardens/soil (HSL-A)
- NEPM Ecological Investigation Levels in Urban Residential/Public Open Space land use settings
- Other guideline as required based on the findings of the investigation.

### 3.4.6 Investigation Criteria used in Supplementary Investigation

Investigation levels were further refined in the Supplementary Investigation to include the derivation of EILs. Ecological criteria for OCPs which do not have an investigation in the level in the NEPM were obtained from the United States Environmental Protection Agency (US EPA). The Investigation Levels adopted in the Supplementary Investigation (refer to Appendix L.2) have been reproduced as follows.

#### Introduction

Soil samples analysed were compared to established guidelines for the protection of human health and the environment. The guidelines adopted for this investigation are referred to as the nominated investigation levels (ILs).

Exceedance of an IL may trigger further consideration of risk through either qualitative risk assessment with consideration to source-pathway-receptors and/or further refinement of the IL. The ILs are summarised as follows.

## Protection of Human Health

The nominated ILs have been selected to assess the suitability of the Site for its intended use for recreational purposes or removal of the Site from the EMR. Based on the Contaminant of Potential Concern (COPC) identified in previous investigations the nominated ILs include:

Assessment of the Site for Recreational Use:

- NEPM health-based investigation levels in recreational land use (HIL-C)
- Other guideline as required based on the findings of the investigation.

Assessment of the Site for removal from EMR

- NEPM health-based investigation levels in residential landuse with accessible gardens/soil (HIL-A)
- Other guideline as required based on the findings of the investigation.

Table 3-7 and Table 3-8 summarise the adopted human health guidelines for soils.

**Table 3-7: Human Health ILs for Soil and Sediment**

| Analyte | Adopted IL |
|---|---|
| • Metals<br>• Organo-chlorine pesticides (OCs)<br>• Carcinogenic PAH (Benzo(a)pyrene TEQ)<br>• Total PAH | Assessment of the Site for Recreational Use:<br>• NEPM health-based investigation levels in recreational land use (HIL-C)<br>• Other guideline as required based on the findings of the investigation.<br>Assessment of the Site for removal from EMR<br>• NEPM health-based investigation levels in residential landuse with accessible gardens/soil (HIL-A)<br>• Other guideline as required based on the findings of the investigation. |
| • Total Recoverable Hydrocarbons (TRH)<br>• Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) Compounds<br>• Naphthalene (N) | The most conservative of the following guidelines has been selected (refer to Table 3-7):<br>• NEPM HSL Vapour intrusion (Residential) <1 m SAND or Recreational/Open Space <1m SAND<br>• NEPM Management Limits (Residential, Parkland and Open Space).<br>• CRC Care Soil Health Screening Levels for Direct Contact Residential HSL-A Low Density. |

**Table 3-8: Summary of Adopted Human Health ILs for TRH**

| TRH Fraction | HSL-A | Management Limits[7] | Direct Contact | Adopted IL |
|---|---|---|---|---|
| TRH C6-C10 minus BTEX | 45 | 700 | 4400[8] | 45 |
| TRH >C10-C16 | 110 | 1000 | 3300 | 110 |
| TRH >C16-C34 | N/A | 2500 | 4500 | 2500 |
| TRH >C34-C40 | N/A | 10000 | 6300 | 6300 |

[7] The NEPM defines the management limits as Petroleum hydrocarbon 'management limits' are limited to petroleum hydrocarbon compounds. They are maximum values that should remain in a site following evaluation of human health and ecological risks and risks to groundwater resources and apply to all soil depths based on site-specific considerations. These limits are to consider the formation of light non aqueous phase liquids, fire and explosion risks and damage to buried infrastructure.

[8] Note the direct contract guideline is for TRH C6-C10 (inclusive of BTEX)

## Asbestos

For asbestos in soil, a screening level of 0.1 g/kg (0.01 % w/w equivalent) was adopted based on the laboratory detection limit for analysis of asbestos in non-homogenous samples using the methodology outlined in Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples (AS4964-2004). Furthermore, an assessment criterion of 'no respirable fibres' was adopted; a detection of respirable fibres would indicate an exceedance of the assessment criteria.

## Protection of Ecological Receptors

For the purpose of this assessment the following Ecological ILs (EILs) have been adopted based on the NEPM Ecological Investigation Levels (EIL) for in Urban Residential/Public Open Space land use settings.

The EILs were derived with consideration to the following physico-chemical soil properties from two soil samples reported in Coffey (2013) including HA11 (replication of sample SS02) and HA07, and soil samples from MW01 which was completed in this investigation. Soil material reported from these locations were comprised of Clayey Sandy SILT (HA07), sandy silty CLAY (HA11), and generally consistent with the description of fill and natural materials observed on the Site.

The physico-chemical properties of the samples previously investigated included:

- CEC: 17 meq/100g (MW01-0.25), 25 meq/100g (HA07), 30 meq/100g (HA11), 33 meq/100g (MW01-0.75)
- pH: 5.5 (MW01-0.25), 5.8 (HA07), 6.3 (HA11) and 6.6 (MW01-0.75).

EILs derived based on the ASC NEPM are summarised in the following Table 3-9.

**Table 3-9: Adopted EILs**

| Potential Contaminant | Adopted EIL | Assumption |
|---|---|---|
| Zinc | 420 | Based on the sum of the Aged Contamination Limits (ACL) and Ambient Background Concentration (ABC) where:<br>• ACL = 400 mg/kg (urban residential/public open space land use and an assumed CEC of 20 meq/100g and pH of 6<br>• ABC = 20 mg/kg (Note 1) |
| Copper | 196 | Based on the sum of the Aged Contamination Limits (ACL) and Ambient Background Concentration (ABC) where:<br>• ACL = 190 mg/kg (urban residential/public open space land use and an assumed pH of 6<br>• ABC = 6 mg/kg (Note 1) |
| Chromium III | 245 | Based on the sum of the ACL and ABC where:<br>• ACL = 190 mg/kg (urban residential/public open space land use and 1% clay content was assumed<br>• ABC = 55 mg/kg (Note 1) |
| Nickel | 287 | Based on the sum of the ACL and ABC where:<br>• ACL = 270 mg/kg (urban residential/public open space land use and an assumed CEC of 20 meq/100g<br>• ABC = 17 mg/kg (Note 1) |
| Lead | 1112 | Based on the sum of the ACL and ABC where:<br>• ACL = 1100 mg/kg (urban residential/public open space land use)<br>• ABC = 12 mg/kg (Note 1) |
| Arsenic | 100 | Based on the generic EIL for urban residential/public open space land use |
| DDT | 180 | |

| Potential Contaminant | Adopted EIL | Assumption |
|---|---|---|
| TRH C6-C10 | 180 | Based on the generic ESL for urban residential/public open space land use, and coarse soils |
| TRH >C10-C16 | 120 | |
| TRH >C16-C34 | 300 | |
| TRH >C34-C40 | 2800 | |

Note 1: BH01 to BH05 are located beneath the Main Building and were found to comprised natural materials (an no fill materials). The Ambient Background Concentration (ABC) was derived as the arithmetic mean of sample results from these sample locations.

There are no EILs for a range of OCPs reported on the site including Aldrin, Dieldrin, Endosulfan, Endrin and Heptachlor.

Ecological guidelines from the USEPA were adopted where there is no Australian guideline.

The USEPA[9] has set the following ecological screening levels for dieldrin (0.0029 mg/kg), aldrin (0.03 mg/kg), chlordane (0.0029 mg/kg), heptachlor epoxide (0.00015 mg/kg) and endrin (0.00019 mg/kg).

### 3.4.7 Scope of Works

The investigation comprised the excavation of 21 hand augered boreholes over the Site on the 3 September 2021, and soil boring the installation of one groundwater monitoring well to 6 m bgs on 17 November 2021. Soil and groundwater sampling was completed in accordance with the methodology summarised below in Table 3-11.

Sample locations are summarised in Table 3-10, and the sampling methodology in Table 3-11. Soil sampling locations are shown in Figure 2, Appendix A.

**Table 3-10 Sample Locations**

| Sample Location | Purpose of Sample Location |
|---|---|
| BH01 to BH08 | Concrete coring and soil sampling beneath the sealed area beneath Main Hall Building, and the concrete drive way along the eastern end of the Site. |
| BH09 to BH11 | Concrete coring between the accommodation building and main hall. |
| BH12 to BH13 | Two surface soil samples (0-0.1 m bgs) where elevated levels of zinc were reported in previous investigations |
| BH14 to BH15 | Two boreholes at previous sampling sites where elevated concentrations of OCPs were reported and there is currently no leachability data including HA10 and HA09. |
| BH16 to BH17 | Two boreholes located in the south west (BH17) and south east (BH16) to provide further delineation of OCP contamination and characterise materials in these portions of the Site. |
| BH16 to BH20 | Four boreholes around the perimeter of the Site in grassy areas outside the building envelope. |
| BH21 | Concrete coring and soil sampling beneath the sealed area of the Accommodation Building |
| Slag 1 to 2 | Collection of two pieces of slag from garden bed (surface) on the southern side of the Main Hall. |

[9] USEPA Region 4 (2018), Region 4 Ecological Risk Assessment Supplementary Guidance, March 2018 update.

| | |
|---|---|
| MW01 | To investigate the presence of a shallow groundwater |

**Table 3-11 Summary of Soil and Groundwater Sampling Methodology**

| Activity | Detail / Comment |
|---|---|
| **Sample collection** | Soil samples were collected from each location by collecting hand trowel and hand auger cuttings. Where possible, samples were collected at depths of 0-0.1 m, 0.3 m and 0.5 m below ground level (if practicable). Surface soil samples were collected using a hand trowel. Selected concrete cores were also collected for analysis.<br><br>Sample collection was undertaken in accordance with AS4482.1-2005. Dedicated disposable nitrile gloves were used for soil sample collection. Samples were placed in laboratory prepared sample containers and appropriately sealed. |
| **Groundwater well installation and sampling** | One groundwater monitoring well (MW01) was installed in the north western corner of the Site. Groundwater was not intersected during drilling and a dry well was installed.<br><br>The monitoring well was constructed from 50mm Class 18 uPVC with machine slotted screening and casing. Threaded joins and end caps were used. The bore annulus was backfilled with washed, graded sand to approximately 0.5 m above the top of the 3 m screened well section and then sealed by an approximate 1 m thickness of bentonite. The remaining bore annulus was backfilled with cement grout to seal the bore annulus from surface water infiltration. A cap was installed on top of the well string to minimise the potential for infiltration of water and other foreign matter falling into the well. The monitoring well was finished with a flush gatic cover.<br><br>The monitoring well was checked again on the 24 November 2021 with an interface probe. No groundwater was present in the monitoring well.<br><br>Field records associated with the drilling and monitoring of MW01 are provided in Appendix K.21. |
| **Reusable sampling equipment** | Non-disposable sampling equipment was decontaminated between each location to minimise the possibility of cross contamination between samples and to minimise the risk of impacting sample integrity. Non-disposable sampling equipment used as part of this investigation included hand auger and hand trowel.<br><br>The decontamination process included:<br><br>• removal of adhered materials using brushes;<br>• washing of the equipment with laboratory grade detergent solution; and<br>• rinsing with de-ionised water.<br><br>Appropriateness of the decontamination procedure adopted was confirmed through collection and analysis of rinsate sample. |
| **Sample preservation** | Samples were placed in laboratory supplied jars and were stored in insulated chilled containers while on site and in transit to the laboratory. It is noted that concrete cores which were placed inside laboratory supplied bulk bags and sealed. |
| **Sample submission** | COC documentation was completed at the time of sample collection and accompanied the samples to the laboratory. |
| **Sample analysis** | Samples were submitted to NATA accredited laboratories for analysis. Eurofins MGT were used as the primary laboratory and ALS was the nominated secondary laboratory. |
| **Analytical Suite** | The following samples were analysed for:<br><br>• 47 soil samples: OCPs, metals (arsenic, cadmium, chromium, copper, lead, nickel, mercury and zinc), and asbestos.<br><br>• 10 concrete samples: OCPs<br><br>• 2 slag samples: metals and PAH<br><br>A total of 14 leachate samples were analysed for:<br><br>• Leachable OCPs or metals (chromium, lead or zinc) via the TCLP. TCLP analysis was undertaken for waste classification purposes and targeted samples which had elevated concentrations of OCPs, and/or metals (zinc, lead and/or chromium). The majority of TCLP samples were undertaken on fill materials collected at ground surface or 0.3 m bgs. Two samples from 0.5 m bgs were analysed and one concrete sample was analysed. Samples analysed included the following samples:<br><br>- Chromium: BH06_0.5, BH07_0.3, BH08_0.3, BH16_0.5, BH21_0.5, BH21_0.3, BH21_0.5 |

| Activity | Detail / Comment |
|---|---|
| | - Lead/Zinc: BH13_0.1, BH14_0.1, BH15_0.1, BH16_0.1, BH19_0.3, BH21_0.3<br>- OCPs: BH14_0.1, BH14_0.3, BH21_0.1, BH21_0.3, BH21_CONCRETE<br>No groundwater was intersected in the monitoring well and therefore a groundwater sample was not collected. |

### 3.4.8 Key Findings

Key findings of the investigation included the following:

- Soil material with OCPs which exceed human health-based guidelines for park/community use (NEPM HIL-C) are predominately located in the upper soil deposits between the Accommodation Building and Main Hall Building, and in a small area south of the Main Hall Building and along the western perimeter of the Accommodation Building.
- Soil material with OCPs which exceed human-health based guidelines for residential use with accessible gardens (NEPM HIL-A)[10] are more widely distributed and generally include upper soil materials north of the Main Hall Building and an area south of the Main Hall Building.
- Elevated concentrations of OCPs (predominately Dieldrin) are mainly limited to soil materials from surface to 0.2 m depth with the exception of sampling site 11 and 10. Elevated concentrations were reported at 0.45 m depth which exceed HIL-C at site 11, and exceeded the HIL-A in sampling site 10 in the investigation completed in 2019 (Coffey, 2019). While these sampling sites potentially represent localised hotspots where contamination is found at a deeper depth from the application of termiticides, the elevated results at this depth may also be the result of cross-contamination where materials from the upper ground deposits contaminated materials from lower ground deposits during sampling. Further investigation to confirm whether cross-contamination occurred at these locations was not considered to be necessary.

  Elevated concentrations of OCPs at depths greater than >0.2 m have not been observed in any of the other sample locations. This includes the following sample locations from the Supplementary Investigation:

  - BH14 which is located next to the sampling point where the highest concentration of OCPs had previously been reported (HA10, Dieldrin+Aldrin 506 mg/kg). BH14 reported a concentrations of Dieldrin+Aldrin of 9.15 mg/kg at 0.1 m and 0.91 mg/kg at 0.3 m.
  - BH21 which was completed in 2021 and reported the highest Dieldrin+Aldrin concentration in this mobilisation of 103.2 mg/kg at 0.1 m, and 1.41 mg/kg at 0.3 m.

  The occurrence of elevated concentrations of OCPs in shallow soil materials is consistent the application of termiticides into the shallow soil materials (~100 mm bgs) adjacent to the two structures on the Site and the chemical properties of aldrin and dieldrin which absorb to soils (particularly soils with high organic matter) and have low solubility (and therefore leachability). These properties also apply to the other OCPs reported including DDT and its breakdown products DDD and DDE, and endosulfan compounds and heptachlor compounds.

- OCPs were not reported above the LOR in soil samples from the following areas:
  - the concrete slab along the driveway along the eastern boundary of the Site (BH06 to BH08)
  - the south eastern corner (BH16)
  - the western boundary of the Site (BH17 to BH19).
- Fragments of ACM and asbestos fines which exceed the nominated ILs have been reported in previous investigations of the Site. Fragments of ACM were not observed in the Supplementary Investigation and asbestos was not reported in soil samples analysed in 2021. As a precautionary measure the upper soil deposits should be considered to contain ACM and there would also be the potential for fragments of ACM to be displaced into the upper soil deposits during demolition of the existing buildings.

[10] Compliance with NEPM HIL-A guidelines will be required if the Site is to be removed from the EMR.

- Fill materials have been found across the Site. The thickness of fill is deepest along the western boundary of the Site (approximately 0.6 m) and shallowest along the eastern boundary (approximately 0.1 m). Fill materials were not found beneath the concrete slab beneath Main Hall Building.
- Fill materials containing ash and/or slag type material has been reported across the Site, and particularly along the western side of the Site.

  Slag/ash materials were observed in sample locations including:

  - Supplementary Investigation: Slag 1, Slag 2, BH06, BH17, BH18 and BH19. Metals and PAHs where analysed at sample depths where slag type materials were encountered.
  - 2019 Investigation[11]: 6 and 7. Metals and PAHs where analysed at sample depths where slag type materials were encountered.
  - 2013 Investigation[12]: SA04/A04, SA05/05, SA06/A06, SA08/A08, SA10/A10, and HA10. With the exception HA10 metals were not analysed in these sample locations.

  Contamination posing unacceptable health or ecological risks has not been found in association with this material.

  All fill materials including fill containing ash[13] and/or slag type material was removed during remediation of the Site. Validation sampling has also been undertaken across the Site (refer to Section 6).
- The maximum concentration of arsenic reported in previous investigations is 32 mg/kg at SS01 which was located in the middle of the Main Hall Building, and not near Slag 1 or Slag 2 sample locations. All samples had concentrations of arsenic well below the NEPM HIL-A / EIL guidelines (100 mg/kg) and no samples reported elevated concentrations of arsenic which would indicate that arsenic was historically used as a termiticide.

  Slag 1 and Slag 2 samples reported non-detectable concentrations of arsenic. The nearest sample locations to Slag 1 (6 and HA02) reported a maximum arsenic concentration of 14 mg/kg. The nearest sample locations to Slag 2 (7 and HA03) reported a maximum arsenic concentration of 20 mg/kg.

  Additional information has been added to the CLID to confirm that arsenic is not a contaminant of concern associated with the use of termiticides on the Site.
- Risk to Human Health and Ecological Receptors
  - Soil materials which in the upper ground deposits (~ <0.25 m bgs) are considered to pose an unacceptable risk to human health where OCPs are present which exceed the NEPM HIL-C and due to the potential for ACM. OCPs also pose a potential unacceptable risk to ecological receptors based on the adopted guidelines.
- Risk to Groundwater Receptors
  - A groundwater monitoring well was installed in the north western corner of the Site to 6 m bgs. Groundwater was not intersected and is likely to be at a depth greater than 20 m bgs (refer to Section 4.4.7). Risk to groundwater receptors was considered to be low based on no shallow water bearing zone being found on the Site and the low leachability of the OCPs present.
  - Further consideration to groundwater receptors post-completion of the Supplementary Investigation was not considered to be required.
- Risk to Surface Receptors
  - Risk to surface water receptors is also considered to be low based on the low leachability of OCPs present and the Site being in a stable condition. There is a potential risk to surface water receptors during remediation from the erosion of soil materials during rainfall events. Risk to surface water receptors can be managed during site clearance and remediation activity through the implementation of routine construction site management controls.

[11] Coffey (2019) Department of Veteran Affairs Delineation of Organochlorine Soil Impacts, 114 Newdegate Street, Greenslopes Queensland
[12] Coffey (2013) Department of Veteran Affairs Phase 2 Contaminated Land Assessment, 114 Newdegate Street, Greenslopes Queensland
[13] The term 'ash and/or slag type materials' was used in the Supplementary Investigation. The term 'ash' was not used in investigations undertaken in 2013 and 2019. The term 'slag' was used in the Phase 2 Investigation undertaken in 2013 (refer to Section 3.2) and the investigation undertaken in 2019 (refer to Section 3.3).

- The primary objective for the remediation of the Site is to make it suitable for park and community use.
- The proposed remediation strategy will involve the excavation and removal of up to 0.6 m depth of soil material over the Site based on the presence of OCPs, ACM and/or the presence of fill materials which contain anthropogenic materials and physical hazards (e.g. sharp and angular) which are considered unsuitable for use in a park.

### 3.4.9 Comments on Investigation

The investigation was undertaken was undertaken in accordance with the SAQP and based on the requirements of the *ASC NEPM.*

The investigation adopted a judgemental sampling program to target data gaps (refer to Section 3.4.3).

It is noted that AS4482.1 has been withdrawn pending revision. The withdrawal of AS4482.1-2005 did not impacted the outcomes of the investigation.

Notable data gaps from the investigation included:

- Soil materials located along the northern site boundary which required disposal to monocell required further investigation to define extent of materials requiring disposal to monocell.

Notable limitations of the investigation included:

- Site access constraints limited the sampling methodology to hand excavation / hand auguring / and a single mechanically drilled borehole which limited the depth of excavations, and the visual characterisation of fill materials. Excavation of mechanically excavated test pits is preferable where fill materials are present, and ACM is a contaminant of concern. Hand sampling methods limited the depth of samples to <0.5 m bgs.
- Sampling was limited to accessible areas around the Site.

# 4. SITE DESCRIPTION AND CHARACTERISATION

## 4.1 SITE IDENTIFICATION

A current title search and registered survey pan of the Site is provided in Appendix K.1.

The Site is located on the corner of Newdegate Street and Headfort Street, Greenslopes, Brisbane. The Site location is shown in Figure 1, Appendix A.

Two buildings were located on the Site and comprise a former Main Hall Building and Accommodation Building (refer to Figure 2, Appendix A).

The Site is currently comprised of cleared land following the completion of the remediation works undertaken in 2023. An aerial photograph of the Site from the 31 October 2023 is shown in Figure 11, Appendix A and in Figure A below.

**Figure B Aerial Photograph of the Site During Remediation (source Nearmap, 13/11/23)**

Site identification details are summarised in Table 4-1.

**Table 4-1 Site Identification Details**

| Item | Detail | | |
|---|---|---|---|
| **Site Address** | 114 Newdegate Street, Greenslopes QLD | | |
| **Lot/Plan Number** | Lot 123 on RP46047 | Lot 124 on RP46047 | Lot 125 on RP46047 |
| **Address** | 51 Headfort Street, Greenslopes, QLD, 4120 | 53 Headfort Street, Greenslopes, QLD, 4120 | 55 Headfort Street, Greenslopes, QLD, 4120 |
| **Geographic coordinates** | Lat: -27.51339<br>Long: 153.04843 | Lat: -27.51336<br>Long: 153.04825 | Lat: -27.51334<br>Long: 153.04810 |
| **Area ($m^2$)** | 647 | 647 | 639 |
| **Historical use** | Veterans accommodation | Veterans accommodation | Veterans accommodation |
| **Current use** | Vacant land | Vacant land | Vacant land |
| **Current Occupiers** | None | None | None |
| **EMR Listing** | Yes | Yes | Yes |
| **EMR Site ID** | 148512 | 148513 | 148514 |
| **CLR listing** | No | No | No |
| **EMR Result Description** | HAZARDOUS CONTAMINANT - This site has been subject to a hazardous contaminant. Refer to the summary given below. Elevated concentrations of organochlorine pesticides (DDD/DDT/DDE and Aldrin/Dieldrin) identified on site above the nominated investigation levels. | | |
| **Date property was listed on the EMR** | The Department of Environment and Science and Innovation (DESI) advised (refer to Appendix K.3) that the Site was listed on the EMR on the 29/1/2016 following notification of the Site by the Department of Veteran Affairs on the 23/12/2015. The Site was listed on the EMR with the description *"Hazardous contaminant - Elevated concentrations of organochlorine pesticides (DDD/DDT/DDE and Aldrin/Dieldrin) identified on site above the nominated investigation levels "* which is consistent with the current EMR Result Descriptions. | | |
| **Current Zoning** | NC Neighbourhood Centre[14] (refer to plan in Appendix K.12) | | |
| **Future zoning** | Unknown | | |
| **Future Landuse** | Open space and commercial | | |
| **Local Council** | Brisbane City Council | | |
| **Total Site Area** | 1,933 $m^2$ | | |
| **Site Owner** | Repatriation Commission[15] (refer to Appendix K.1) | | |
| **Land Use on the Site** | The Site is currently comprised of cleared vacant land following the completion of the remediation works undertaken in 2023 (refer to Section 6). | | |
| **Land Use surrounding the Site** | Surrounding landuse is shown in Appendix K.13, and includes:<br>North – Residential houses<br>East – Residential houses<br>South – Headfort Street then Residential houses<br>West – Newdegate Street then Health care (Greenslopes Private Hospital) | | |
| **Services** | During remedial works services were disconnected and removed from the Site with the exception sewer pit with manhole cover in the north eastern corner. The location of these services is shown in Figure 12, Appendix A. Refer to Section 4.2.8 for further information on building services pre-remediation and Section 6.6.2 for information on services post-remediation. | | |

[14] Brisbane City Plan 2014. Neighbourhood centre is a small mix of land uses to service residential neighbourhoods. It includes small-scale convenience shopping, professional offices, community services and other uses that directly support the immediate community.

[15] The Repatriation Commission is part of the Department of Veterans Affairs

## 4.2 SITE HISTORY

### 4.2.1 Historical Title Information / Previous Owners and Occupiers

Historical title information was obtained for the PSI (refer to Section 3.1) and has been reproduced in Appendix K.14. Historical title information is summarised in Table 4-2.

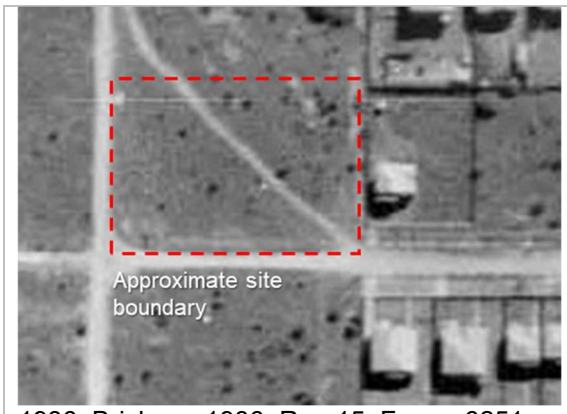
**Table 4-2 Summary of Historical Title Information**

| Year | Registered Owner | Comment |
|---|---|---|
| **1858** | Thomas Blackel Stephens/Anne Stephens | Portion 102, 52 acres. Three year Lease to Commonwealth of Australia in 1901. Transfer to Stephens Estates Limited 1904. |
| **1873** | Thomas Blackel Stephens/Anne Stephens | Portion 102A, 4 acres 32 perches. |
| **1920** | War Services Home Commissioner | Sub 1 of Portion 102, 46 acres 26 perches. |
| **1945** | Repatriation Commission | Resub 2 and 134 to 173, 10 acres 15 39/100 perches. |

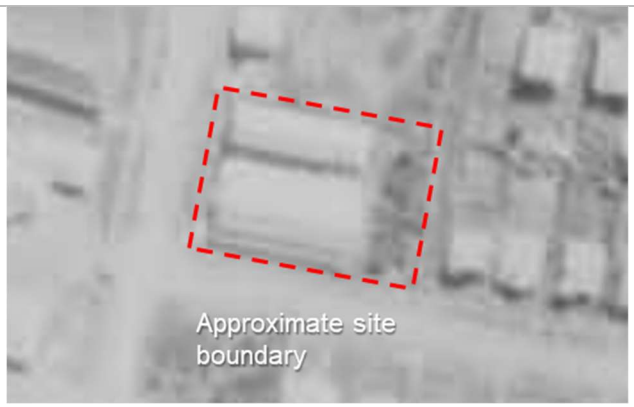
The review of the historical certificates of title indicated the Commonwealth of Australia had interests in the site from as early as 1901 with a lease which covered the site and surrounding properties. The property was transferred to the current registered owner of the Site (the Repatriation Commission[16]) in 1945 (refer to Appendix K.1).

### 4.2.2 Historical Aerial Imagery

Historical aerial photography of the Site and surrounding land is provided in the LotSearch Report included in Appendix K.2. Historical aerial imagery shows the land was cleared land in 1936 and 1941, and potentially in use for rural purposes (see image below for 1936). The site was acquired by the Commonwealth of Australia in 1920 and the Site was developed as the Australian Red Cross Centre (ARCC) between 1941 and 1946 (refer to Appendix K.2). Historical images of the Site from 1936 and 1946 are shown in Figure B below.




1936: Brisbane 1936, Run 15, Frame 6251




1946: Brisbane 1946, Run 11A, Frame 34654

**Figure B: Historical Aerial Images (source: QImagery)**

The historical aerial photograph of the Site in 1946 shows the accommodation building in the north and the main hall building in the south. The location of these buildings is shown in Figure 2, Appendix A, and in Figure

[16] The Repatriation Commission is part of the Department of Veterans Affairs

C on the following page. The configuration of buildings on the Site therefore remained the same over this time period until the buildings were demolished in 2023.

**Figure C Historical Aerial Image of the Site 2021 (Image source: Queensland Globe, 2021)**

Historical imagery in the LotSearch Report included in Appendix K.2 shows the Greenslopes Private Hospital being constructed in 1941 and landuse adjoining the Site comprising cleared land to the north and south and residential to the east. By 1955 landuse north, south and east of the Site was residential, and west of the Site was the Greenslopes Private Hospital[17]. Landuse surrounding the Site (i.e. residential to the north, south and east) and Greenslopes Private Hospital to the west remains the present day.

### 4.2.3 Historical Maps

Historical maps of the Site are provided in the LotSearch Report included in Appendix K.2.

Historical maps included in Appendix K.2 show buildings on the Site in 1947 which is consistent with historical aerial imagery, and the Site as the 'Red Cross Centre' in 1948.

[17] The Greenslopes Private Hospital opened in 1942 (https://www.greenslopesprivate.com.au/About-Us/Our-History, accessed 28/8/2024).

### 4.2.4 Historical Land Use

Based on historical aerial imagery (refer to Section 4.2.2) the Site was cleared land in 1936, and developed as the Australian Red Cross Centre (ARCC) between 1936 and 1941.

The ARCC was built to provide recreational services to military personnel who were patients at the 112th Australian Military Hospital. Post World War II, the ARCC was used for a similar purpose for service personnel and veterans. The buildings on the Site were later used for community purposes and to provide temporary accommodation for the families of patients at the Greenslopes Reparation Hospital[18]. The former ARCC buildings remain on the Site to early 2023 and were subsequently removed from Site during the remedial works outlined in this report in 2023.

An Interview with a representative from the Australian Red Cross[19] for the PSI (refer to Section 3.1.3) did not identify historical incidents involving releases of hazardous materials, building fires, or the storage of hazardous materials other than the storage of cleaning chemicals and paints.

No building fires occurred on the Site in the time period post completion of the PSI after 2013[20] to when the buildings were demolished in 2023.

No storage/use of hazardous materials or dangerous goods were observed in subsequent inspections of the Site undertaken in previous investigations between 2013[20] to when the Site was demolished in 2023.

### 4.2.5 Information held by Department of Environment and Science

DESI has confirmed in writing on the 20 March 2024 (refer to Appendix K.3) that the information it holds on the Site is the report is the report *Department of Veterans Affairs, Phase 2 Contaminated Land Assessment. 114 Newdegate Street, Greenslopes QLD. Prepared by Coffey Environments Australia Pty Ltd. 4 November 2013. Project Ref: ENAUBRIS09222AA*. This report has been summarised in Section 3.2. DESI also provided advice in regard to when the Site was listed on the EMR; this information is summarised in Table 4-1. Accordingly DESI does not hold any additional information on the Site which has not been considered in the preparation of this document.

### 4.2.6 Information held by Brisbane City Council

The PSI undertaken in 2013 (refer to Section 3.1) included a Right For Information (RFI) search with BCC. Information provided by BCC in response to the RFI search on the 30 July 2013 is provided in Appendix K.4.

The search results identified that BCC did not hold any information in regards to dangerous goods, hazardous materials and environmental licenses for the Site.

The response from BCC is consistent with information provided by the Australian Red Cross and site observations in inspection during the PSI which did not identify dangerous goods/hazardous materials being stored/used on the Site (refer to Section 3.1).

No information on activities with the potential for contamination would be expected to be held by BCC since this search was completed for the following reasons:

- DESI rather than BCC is the administering authority in regard to contaminated land, and therefore any new information on contaminated land will be submitted to DESI rather than BCC. Information held by DESI is summarised in Section 4.2.5.
- There has been no change in the configuration of the Site since the RFI was submitted in 2013.

[18] https://heritage.brisbane.qld.gov.au/heritage-places/806, accessed 16 July 2021.
[19] Ms Kathryn Cunneen
[20] 2013 to 2023 is the time period after the PSI was completed to when the buildings on the Site were demolished.

- There has been no change in the use of the Site (other than the Site being used by the Australian Red Cross) since 2013.
- No hazardous materials/dangerous goods being stored/used on the Site were observed in subsequent inspections of the Site by Coffey/Tetra Tech Coffey from 2013 to the present day.

### 4.2.7 Building Structures

The buildings which were historically located on the Site are shown in Figure 2, Appendix A, and in Figure C. Other structures such as sheds, tanks, storage vehicles, and workshops were not historically located on the Site.

The buildings on the Site did not have basements and had shallow concrete foundations (<0.4 m deep) which were removed during the demolition/remediation of the Site in 2023.

Building structures were confirmed to contain ACM and lead based paints in a survey of the Site undertaken in 2021 and documented in Coffey (2021) *Asbestos and Hazardous Materials Pre-Demolition Assessment, 114 Newdegate Street, Greenslopes QLD 4120, 9 April 2021*.

Asbestos was also found in some of the paints used on buildings on the Site and is documented in the report Tetra Tech Coffey (2022) *Asbestos Paint Assessment, 114 Newdegate Street, Greenslopes QLD, 27 April 2022*.

In 2022 and prior to the demolition and remediation of the Site undertaken in 2023 (refer to Section 6), DVA engaged Enviropacific Services (EPS) to remove paint materials which were flaking off the exterior of buildings and paint materials which had flaked off the buildings to ground surface. These building remedial works were undertaken under an Asbestos Removal Management Plan (ARMP) under the supervision of a Licenced Asbestos Assessor (LAA). EPS has advised that materials removed were disposed as regulated wastes to appropriately licenced disposal facilities.

In an inspection of the Site on the 3 July 2023 and prior to the undertaking of demolition and remediation of the Site, paint flakes were not readily observable on the ground surface at the Site and paint materials flaking off the exterior of buildings were not observed.

The building structures were demolished and removed from the Site in 2023 under an ARMP, and under the supervision of a LAA.

### 4.2.8 Building Services

#### 4.2.8.1 Utilities on the Site prior to Remediation

Underground utilities which historically connected to the Site included:

- Reticulated potable water (fire main[21]) which connected to a fire hydrant on the Site off Newdegate Street (refer to Appendix K.15). Records from BCC[22] indicate the fire main was a cast iron pipe installed in 1976.
- Sewer manhole and connection to the sewer network located in the north eastern corner of the Site (refer to Appendix K.15). Records from BCC[22] indicate the sewer pipe in the north east of the Site was installed in 1954 and has an invert level of 23.07 m AHD (approximately 0.7 m below pre-remediation site levels). The pipe was located beneath the soil material requiring remediation and was therefore not intersected during remediation (refer to Section 6).
- Sewer pipe on Newdegate Street which connected to the Site at the north western boundary (refer to Appendix K.15).

[21] The fire main contains reticulated potable water and is not associated with the use of Per-and Poly-fluoroalkyl Substances (PFAS). Further information on the likelihood of the use of PFAS on the Site is provided in Section 4.2.9.
[22] eBIMAP2 mapping service | Brisbane City Council (accessed 3 May 2024)

Other utilities (gas, electricity, telecommunications) were not located on the Site as an underground utility.

Stormwater from the roof of Site buildings historically discharged into the BCC kerb drainage in Newdegate Street. The contractor responsible for demolition/remediation of the Site confirmed that sub-surface stormwater drainage pipes were not encountered during demolition/remediation. Underground stormwater drainage pipes are located on the adjoining properties east of the Site (refer to Appendix K.15).

The contractor responsible for the demolition of the Site (Enviropacific Services (EPS)) advised that the only underground utilities connecting to the Site included the fire main and the sewers in the north west and north west corner of the Site (refer to Appendix K.15).

During demolition of the Site EPS undertook the following:

- the fire main into the Site was decommissioned.
- the sewer connection in the north west of the Site was capped at the Site boundary.
- the sewer connection in the north east of the Site was capped at the rising main. Refer to Figure 12, Appendix A for the location of the Rising Main.
- local clay sewer pipes located beneath the accommodation building and main hall were removed which connected to the sewer mains were removed. These pipes had a depth of approximately <0.4 m. The approximate area[23] from which the pipes were removed is shown in Figure 7, Appendix A.

Trenches for the removal of the fire main and sewer connections were approximately 450 m wide and up to 600 mm deep.

#### 4.2.8.2 Utilities on the Site post Remediation

Utilities which remain on the Site post-remediation are shown in Figure 12, Appendix A and include:

- a water main installed by the Remediation Contractor (EPS) connection located on the eastern boundary
- a sewer main in the northern eastern corner of the Site
- a sub-surface gravel drain installed by the Remediation Contractor which connects to a PVC stormwater pipe at the Site boundary and discharges into the gutter of Newdegate Street.

#### 4.2.8.3 Migration of Contaminants Along Building Services

The contaminants of concern for the Site (refer to Section 4.5 and Section 4.2.10) are non-leachable (asbestos) or have low solubility/leachability (OCPs) and therefore the migration of contamination along preferential pathways which may be associated with building services (e.g. bedding sands) is not considered to be an applicable transport pathway for the migration of contamination on the Site.

### 4.2.9 Activities with the Potential for Contamination Not Applicable to the Site

Section 3.3 of Schedule B2 of the NEPM includes a range of activities with the potential to cause contamination which have not been undertaken on the Site based on previous investigations and historical information included in this document (refer 4.2). These include:

- Industrial/commercial processes and manufacturing of products
- Chemical storage/use other than those typically found in residential landuse setting including cleaning products and paints (refer to Section 3.1.3)
- Raw materials used in industrial process and manufacturing

[23] the location of sewer pipes beneath the main hall building and accommodation building were not surveyed by EPS and was not a requirement for the demolition of the Site.

- Intermediate products which may be formed in industrial processes and manufacturing
- Fuel storage
- Industrial/commercial activities which would result in the generation of waste products with the potential for contamination.
- Waste storage (other than domestic wastes) and disposal of waste to land
- Incidents associated with spills from industrial processes such as raw product, intermediate product or waste spills
- Discharges to land and water from waste products associated with industrial/commercial activities
- Power generation
- Earthmoving activities.

### Notifiable Activities

The historical use of the Site has not included any of the Notifiable Activities described in Schedule 3 of the *Environmental Protection Act 1994.*

### Per-and Poly-fluoroalkyl Substances (PFAS)

The historical use of the Site has not included in of the activities described in Appendix B of HEPA (2020) *Per-and poly-fluoroalkyl substances National Environmental Management Plan, Version 2.0* (PFAS NEMP).

In addition there are no records of fires on the Site, and fill materials placed on the Site (1936 to 1941) pre-date the use of PFAS in Queensland which occurred after the 1950s[24].

The Site is not located in the vicinity of PFAS investigation sites by Defence, Airservices Australia or Queensland Figure and Emergency Services (refer to Appendix K.2). The nearest PFAS investigation site is a fire station located at Annerley located approximately 1.6 km north west of the Site. This fire station is not hydraulically connected to the Site.

Accordingly PFAS is not considered to be a contaminant of concern for the Site.

## 4.2.10 Contamination from Historical Landuse

The PSI undertaken in 2013 (refer to Section 3.1) identified the presence of ACM on the Site as well as organochlorine pesticides in soil associated with the application of termiticides used in termite barriers.

### Termite Barriers and Organochlorine Contamination

The buildings on the Site were constructed from timber and termite barriers would have been installed around the perimeter of these buildings. Further investigations of the Site undertaken between 2013 and 2022 provided further information on the extent of organochlorine pesticides on the Site. OCPs which have been reported in soils within the Site from previous investigations include:

- DDT, DDE and DDD
- Aldrin and Dieldrin
- Chlordane
- Endrin aldehyde
- Endrin ketone
- Endosulfan I
- Endrin

[24] https://www.qld.gov.au/environment/management/environmental/incidents/pfas/about, accessed 16 July 2024

- Heptachlor
- Heptachlor epoxide.

### Termite Barriers and Other Potential Contaminants of Concern

OPPs and arsenic which can also be associated with the application of termiticides were not identified in previous investigations as contaminants of concern at the Site (refer to Section 3 and Section 4.5.2.5).

### Lead

Elevated concentrations of lead which could be associated with lead based paints were not reported in previous investigations of the Site (refer to Section 3). Paint materials which had flaked off the building were removed from the Site prior to the undertaking of remediation of the Site in 2023 (refer to Section 4.2.7). Accordingly lead is not considered to be a contaminant of concern for the Site.

### ACM

Fragments of ACM on the ground surface at the Site and asbestos fines in shallow soil materials have been reported in previous investigations of the Site (refer to Section 4.5).

ACM were also observed in fill materials during remediation; refer to the following sub-section.

### Fill Materials

Fill materials were identified on the Site in previous investigations (refer to Section 3) and included the presence of anthropogenic materials including ash and slag materials. Fill materials underly the buildings which were located on the Site and therefore were placed on the Site prior to the construction of the buildings between 1936 and 1941. There are no records of the placement of fill materials[25] on the Site including those held by DESI (refer to Section 4.2.5), BCC (refer to Section 4.2.6) and the Australian Red Cross (refer to 3.1) and therefore the fill materials can be considered as 'uncontrolled fill materials'.

During remediation of the Site, ACM was found in the fill materials (refer to Section 6).

Remediation of the Site in 2023 resulted in the removal of fill materials on the Site, and soil materials with OCP contamination which required remediation to achieve the remediation objectives.

### Contaminants of Concern

In summary the Contaminants of Concern for the Site include:

- OCPs
- Asbestos

## 4.2.11 Data Gaps

Based on the previous investigations of the Site (refer to Section 4.2) and the information included in Section 4.2, the history of the Site is considered to be sufficiently understood in regard to historical activities which occurred which resulted in contamination on the Site and the contaminants of concern associated with these activities. Contaminants of concern have been confirmed through previous investigations of the Site (refer to Section 3) and were summarised in Section 4.2.10.

[25] or any other earthworks

## 4.3 QUEENSLAND GOVERNMENT REGISTERS

### 4.3.1 Environmental Management Register

The Site is listed on the EMR for Hazardous Contaminants including elevated concentrations of organochlorine pesticides (DDD/DDT/DDE and Aldrin/Dieldrin). EMR search results are included in Appendix K.1. The Maximum concentrations reported on the Site from previous investigations are summarised in Section 4.5.

The Site is not subject to a SMP and the EMR listing does not include a Site Suitability Statement.

The Site is not listed on the Contaminated Land Register (CLR). Further information on the EMR listing pertaining to the Site is provided in Table 4-1.

### 4.3.2 Environmentally Relevant Activities

A search of Environmental Relevant Activities (ERA) held by DESI was included in the Lot Search Report included in Appendix K.2. The Lot Search Report did not identify any ERA on the Site, or within the vicinity of the Site (1 km search radius). In addition the known historical uses of the Site would not constitute an ERA under Schedule 2 of the *Environmental Protection Regulation 2019* and require an Environmental Authority.

### 4.3.3 Enforcement Actions

A search of Enforcement Actions (EAs) held by DESI was included in the Lot Search Report included in Appendix K.1. The Lot Search Report did not identify any EAs on the Site, or within the vicinity of the Site (1 km search radius).

## 4.4 ENVIRONMENTAL SETTING AND SITE CHARACTERISATION

The Site is located in a predominantly residential area approximately 5.5 km south east of the Brisbane Central Business District. The Greenslopes Private Hospital and associated medical facilities are located west of the Site and on the western side of Newdegate Street.

There are no environmental sensitive areas which adjoin the Site. Environmentally sensitivity areas which are in the local area in the vicinity of the Site are described in this section.

### 4.4.1 Topography

A Topographical map of the Site and the surrounding area is provided in the Lot Search Report in Appendix K.2 and the topographical map included in Appendix K.6.

The topography of the surrounding area is dominated by Stephen Mountain[26] which has a height of 55 m AHD and is located west of the Greenslopes Hospital and approximately 400 m west of the Site.

Topography in the vicinity of the Site falls in an approximate northwest direction towards Norman Creek (drain[27]) in Ekibin Park East located 840 m northwest of the Site (refer to Appendix K.6). The location of Ekin Park East is shown in Appendix K.6.

[26] Stephens Mountain has an elevation of 55 m AHD and is located west of Greenslopes Private Hospital and is approximately 400 m from the Site (https://qtopo.information.qld.gov.au/, accessed 1 September 2021)
[27] Note Norman Creek is a concrete lined drain in Ekibin Park East

Prior to remediation of the Site in 2023 (refer to Section 6), the Site had a ground elevation of approximately 25 m AHD, and topography on the Site sloped gently from the southeast towards the northwest (refer to Figure 13, Appendix A).

Remediation of the Site in 2023 involved the excavation and off-site disposal of materials requiring remediation, and average excavation depth of approximately 0.45 m over the Site (refer to Section 6). Post-remediation ground levels of the Site are shown in Figure 14, Appendix A.

### 4.4.2 Hydrology

Surface water receptors are shown in the topographical map included in Appendix K.6

Surface water runoff from the Site is discharged into the BCC kerb drainage system in Newdegate Street. Stormwater in the vicinity of the Site will discharges to the Norman Creek (drain[27]) via the kerb drainage system in streets as well as pipe drainage in the area which is shown in the plan included in Appendix K.15.

South of the Site is Glindemann Creek[28] which is a tributary of Norman Creek. Glindermann Creek is not considered to be hydraulically connected to the Site.

### 4.4.3 Regional Geology

Regional geology of the Site and the surrounding area is shown in the geology map included in the Lot Search Report included in Appendix K.2.

Regional geology of the Site and surrounding land is the Neranleigh-Fernvale beds (DCf) (NFB). This geological formation is described as feldspathic and lithic meta-arenite, metasiltstone and conglomerate proximal turbidites, with structurally intercalated or stratigraphically underlying chert, jasper and basic meta-volcanics[29].

### 4.4.4 Local Geology

Lithologies recorded in previous investigations of the Site (refer to Section 3) are summarised in Appendix K.5. Investigation locations are shown in Figure 2, Appendix A.

Previous investigation of the Site (refer to Section 3) have identified the subsurface geology of the Site is comprised of fill materials, which are underlain by natural silty clay soils, which are underlain by mudstone. These lithologies are described further as follows:

#### Fill Materials

Fill materials comprised:

- reworked firm, dry, red brown, low plasticity silty clay fill interspersed with bedding sands and gravels in the north of the Site.
- ash and slag-type materials from the east, south and west of the Site. Photographs of these materials taken during remediation are provided in Section 6.5.

[28] Glindemann Creek is located approximately 1.26 km south east of the Site.
[29] https://asud.ga.gov.au/search-stratigraphic-units/results/14021, accessed 1 September 2021

Plate 1: Example ash fill material with ACM

During remediation ACM comprising broken sheets of cement sheeting were frequently encountered in fill materials on the Site. All fill materials were removed from the Site during remediation (refer to Section 6).

Other anthropogenic encountered in fill materials included brick, concrete, wood, slag, ash, and glass.

In some vegetated areas over the Site a thin (<0.1 m) layer of topsoil (fill) containing organic matter was observed.

Fill materials were variable in depth and composition over the Site. Fill was identified to a maximum depth of 0.6 m, and were deepest along the southern and south-western boundary of the Site.

Plate 2: Excavation of ash fill materials during remediation along the southern boundary of the Site during remediation

### Natural Materials

Underlying the fill material was the natural residual soil materials comprising firm, dry, red/brown, low plasticity silty clays transitioning to slightly moist medium plasticity orange/brown silty clays with occasional bands of sub rounded gravels. As shown in Plate 3 natural undisturbed soils were relatively consistent in appearance across the Site. Accordingly undisturbed natural soils were readily distinguishable from the overlying fill materials.

Plate 3: Natural soil materials comprising red/brown silty clays

Weathered mudstone was encountered from approximately 2.9 m bgs in the north-western portion of the Site in MW01 (refer to Figure 2, Appendix A. Weathered mudstone (clay) was also encountered during remediation. The borelog for MW01 is included in Appendix L.2.

The NFB which underly the Site (refer to Section 4.4.3) was not encountered during the drilling of MW01. It should be noted the contaminants of concern were located in fill and surface materials and accordingly it was not a requirement of the investigation to confirm the depth of the NFB on the Site.

## 4.4.5 Acid Sulfate Soils

Acid sulfate soil mapping for the Site and the surrounding area is provided in the Lot Search Report included in Appendix K.2. The Site is located in an area with extremely low probability of occurrence of acid sulfate soils.

Acid sulfate soils are typically found in coastal areas lower than 5 m AHD[30]. The Site is located at approximately 25 m AHD (refer to Section 4.4.1) and not is a low-lying coastal area.

## 4.4.6 Soil Landscape

Soil mapping for the Site and the surrounding area is provided in the Lot Search Report included in Appendix K.2. Soils at the Site and the surrounding area are described as Tenosol (Tb64). The description of Tenosol soil type from the Atlas of Australian Soils is as follows (refer to Appendix K.2):

[30] https://www.qld.gov.au/environment/land/management/soil/acid-sulfate/explained, accessed 4 May 2023

*Rolling to hilly terrain with gentle to moderate slopes: chief soils are hard acidic yellow (Dy3.41) and red (Dr3.41) mottled soils. Associated are hard alkaline yellow (Dy3.43) and red (Dr3.43) mottled soils; sandy acidic yellow mottled soils (Dy5.41), (Dy5.31), and (Dy5.81) and leached sands (Uc2.2), all containing large amounts of nodular ironstone material, also with mottled clays, at depth, below the (Uc2) soils. As mapped, small areas of adjoining units are included.*

Natural soils on the Site have attributes which align with the description of Tenosols including landscape (i.e. located on rolling to hilly terrain), the pH of the soil which is acidic (pH 6, refer to the derivation of EILs in Section 3.4.6) and colour which is red/brown (refer to Section 4.4.4).

### 4.4.7 Hydrogeology

The SKM/Aurecon (2011) *Cross River Rail Environmental Impact Statement Technical Report No.4 Groundwater Assessment, July 2011*[31] describes groundwater in the Cross River Rail (CRR) Study Area which includes Greenslopes (CRR Technical Report 4). CRR Technical Report 4 describes that there are two broad aquifer types in the CRR Study Area including: fractured rock aquifer systems which includes the Neranleigh-Fernvale beds where the Site is located; and alluvial aquifers associated with water courses.

The Site is located in an elevated area on a hill and is therefore not in an alluvial area.

Shallow alluvial aquifers however are expected to be present in the vicinity of Norman Creek which has a ground elevation of 10 m AHD. Norman Creek is considered to be the nearest alluvial aquifer which is hydraulically down-gradient from the Site.

The CRR Technical Report 4 reports that groundwater yield in the NFB is low and can range from 0 to 1.0 L/s. Modelled groundwater levels in the CRR Technical Report 4 indicate that the depth to the water table at the Site would be approximately 20 to 50 m bgs. The modelled output from this technical report has been reproduced in Appendix K.7.

Registered groundwater bores within 2 km of the Site are shown in the Lot Search Report included in Appendix K.2. Appendix K.2 also includes information on groundwater bores in the search areas including their purpose, lithology and the aquifer.

The nearest registered bore to the Site is RN133887 is located approximately 920 m to the east of the Site. This borehole is located in the NFB (refer to the geological map in Appendix K.2). The bore report for RN133887 included in Appendix K.8 indicates groundwater was encountered at 51.2 m bgs, and groundwater was salty and had a yield of 0.03 L/s.

This bore is located at approximately 45 m AHD (refer to Appendix K.8) and therefore the groundwater table in the NFB would be at approximately -5 m AHD.

Ground elevation on the Site pre-remediation was approximately 25 m AHD (refer to Section 4.4.1). If a groundwater elevation of -5 m AHD was assumed on the Site, the depth to groundwater on the Site in the NFB would be approximately 30 m bgs which is consistent with model prediction in the CRR Technical Report which predicted a depth to groundwater of 20 to 50 m bgs in this area.

Of the other registered bores within a 2 km of the Site, those which are still in use were installed for monitoring purposes and are not considered to provide relevant information to the interpretation of groundwater on the Site. One bore (133416) was installed for water supply. Bore 133416 was installed approximately 1130 m south of the Site in the Brisbane Tuff geological unit and is not hydraulically connected to the Site.

Extraction for use of groundwater in the vicinity of the Site is considered unlikely based on the supply of reticulated potable water in Brisbane and low yield of the NFB.

31 https://eisdocs.dsdip.qld.gov.au/Completed%20Projects/Cross%20River%20Rail/EIS/EIS%2030%20Aug%202011/03%20Volume%203/Technical%20Report%204%20Groundwater.pdf, accessed 4 May 2023

### Potential for a Shallow Groundwater Aquifer on the Site

In the Supplementary Investigation groundwater monitoring well (MW01) was installed to investigate the potential for a shallow groundwater aquifer (refer to Section 3.4.4). Groundwater was not intersected during the drilling of MW01[32] which was extended to 6 m bgs or the gauging of this monitoring well (refer to Section 3.4.8 and Appendix K.21).

The absence of shallow groundwater on the Site is consistent with the conditions which are unlikely to support the formation of a shallow groundwater aquifer for the reasons outlined in the following paragraph.

The Site is located in an elevated area on a hill. In combination with the topography of the Site and surrounding area which slopes to the north, urbanisation of the local area with hard surfaces (i.e. roof, hard surfaces and roads) which discharge runoff into the stormwater drainage system, and natural soil types[33] which would retard infiltration of rainfall and promote surface water runoff, conditions of the Site and the surrounding area are more likely to support the shedding of rainfall as surface water runoff into the stormwater drainage system (refer to Section 4.4.2) and not promote conditions which support the ponding and infiltration of rainwater which would be required for the formation of a shallow groundwater aquifer.

### Risk from contamination at the Site

A key finding of the Supplementary Investigation (refer to Section 3.4.8) was that prior to the undertaking of remediation the risk to groundwater receptors (which includes hydraulically down-gradient) was considered to be low for the following reasons:

- groundwater was not intersected and is likely to be at a depth greater than 20 m bgs. No shallow water bearing zone being found on the Site and conditions are unlikely to support the formation of groundwater
- OCP contaminants on the site strongly absorb to soils and have low solubility/leachability. The risk of these contaminants leaching to underlying groundwater is therefore considered to be low. The low leachability of these contaminants is demonstrated by elevated concentrations of OCPs being generally limited to soil materials less than 0.2 m bgs. The occurrence of elevated concentrations of OCPs in shallow soil materials is consistent the application of termiticides into the shallow soil materials.

Post-remediation (refer to Section 6) risk to groundwater is considered to be negligible on the basis that the source of contamination requiring remediation has been removed from the Site.

## 4.4.8 Flood Risk Assessment

BCC Flood Awareness Online Mapping[34] included in Appendix K.9 shows the Site is not located in an area which has been mapped at risk from with riverine/creek or overland flow flooding.

In addition, the Site is not within the Queensland Floodplain Assessment Overlay (refer to Appendix K.2).

## 4.4.9 Bushfire Prone Areas

Bushfire mapping for the Site and the surrounding area is provided in the Lot Search Report included in Appendix K.2. The Site is not located in an area which is prone to bushfires.

[32] MW01 was installed in September 2021

[33] Natural soils on the Site and the surrounding area are silty clays and the underlying materials being mudstones. These materials are likely to have a lower permeability and therefore retard surface water infiltration into the underlying materials (refer to Section 4.4.4).

[34] https://www.brisbane.qld.gov.au/community-and-safety/community-safety/disasters-and-emergencies/be-prepared/flooding-in-brisbane/flood-awareness-map, accessed 4 May 2023

### 4.4.10 Fire Ants

Fire ant mapping for the Site and the surrounding area is provided in Appendix K.10. The Site is located in 'Fire ant biosecurity zone 2'. Zone 2 covers suburbs which are yet to receive eradication treatment[35].

### 4.4.11 Unexploded Ordinance

Unexploded Ordinance (UXO) mapping for the Site is provided in Appendix K.11 based on mapping from the Department of Defence[36]. The Site is not located in an area with mapped risk of UXO.

### 4.4.12 Cultural Heritage

The Lot Search Report included in Appendix K.2 included a search of Commonwealth and State heritage registers. The Site is not recorded on either Commonwealth or State Heritage registers.

### 4.4.13 Regional Ecosystems

Regional Ecosystem mapping for the Site is provided in Appendix K.16. The Site is not located in an area with mapped Regional Ecosystems. Regional Ecosystems are located west of the Site at Stephens Mountain[37], and south west of the Site near Glindemann Creek[38].

### 4.4.14 Matters of State Environmental Significance (MSES)

MSES mapping for the Site is provided in Appendix K.17. The Site is not located in an area with MSES. MSES areas are located west of the Site at Stephens Mountain[37], and south west of the Site near Glindemann Creek[38].

### 4.4.15 Groundwater Dependent Ecosystems

The Lot Search Report included in Appendix K.2 includes a map showing Groundwater Dependent Ecosystems (GDEs) within a 1 km radius of the Site. There are no GDEs at the Site, and two GDEs within a 1 km radius of the Site. These are summarised in the following table.

**Table 4-3 Summary of Groundwater Dependent Ecosystems**

| Type | GDE Potential | Ecosystem Type | Aquifer Geology | Distance |
|---|---|---|---|---|
| **Aquatic** | Moderate potential GDE - from regional studies | Riverine wetland | Unconsolidated sedimentary | 234m |
| **Terrestrial** | Moderate potential GDE - from regional studies | Vegetation | Unconsolidated sedimentary | 423m |

The terrestrial GDE is located south west of the Site near Glindemann Creek[38] and the aquatic GDE is located west of the Site on Glindemann Creek. Glindemann Creek is not hydraulically connected to the Site. Therefore the Site is not hydraulically connected to these GDEs (refer to Section 4.4.2).

[35] https://www.fireants.org.au/stop-the-spread/fire-ant-biosecurity-zones, accessed 4 May 2023
[36] https://uxo.defence.gov.au/, accessed 4 May 2023
[37] Stephens Mountain is located approximately 400 m west north west of the Site.
[38] Glindemann Creek is located approximately 1.26 km south east of the Site.

### 4.4.16 Environmental Values and Water Quality Objectives

The Site is located within freshwater reaches of Norman Creek Catchment as shown in the *Environmental Protection (Water) Policy 2009 South-east Queensland Map Series, PLAN WQ1431* (Queensland Government, 2022) included in Appendix K.18

Under the Environmental Protection (Water) Policy (2009), the Site falls within the area covered by the '*Brisbane River Estuary - Environmental Values and Water Quality Objectives Basin No. 143* (Department of Environment and Science, 2022) and included in Appendix K.18.

The environmental values identified for Norman Creek (freshwaters) and groundwater in this document are summarised in Table 4-4. It has been assumed that the EV for the protection of aquatic ecosystems would also apply to groundwater.

**Table 4-4 Water Quality Environmental Values**

| Water Resource | Environmental Values | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Aquatic ecosystems | Irrigation | Farm supply/use | Stock water | Aquaculture | Human consumer | Primary Recreation | Secondary recreation | Visual recreation | Drinking water | Industrial use | Cultural and spiritual values |
| **Norman Ck Fresh Waters** | ✓ | | | | | ✓ | | ✓ | ✓ | | | ✓ |
| **Groundwater** | ✓ | ✓ | ✓ | ✓ | | | | | | ✓ | | ✓ |

The management intent for Norman Creek (freshwaters) is moderately disturbed ecosystem (refer to Appendix K.19). For a moderately disturbed ecosystem, the following water quality objectives:

- Australian drinking water guidelines (2011 updated December 2013) prepared by National Health and Medical Research Council (NHMRC)
- Australian and New Zealand guidelines for fresh and marine water quality 2000 (2018 edition) prepared by Australian and New Zealand Environment and Conservation Council (ANZECC) and the Agriculture and Resource Management Council of Australia and New Zealand (ARMCANZ) ("ANZECC Guidelines). For toxicants a 95% level of protection is assumed for lowland freshwater based on the management intent described in *Environmental Protection (Water) Policy 2009, South-east Queensland Map Series PLAN WQ1423* (Queensland Government, 2010)
- Guidelines for Managing Risks in Recreational Water (NHMRC, 2008).

#### Risk from contamination at the Site

A key finding of the Supplementary Investigation (refer to Section 3.4.8) was that prior to the undertaking of remediation the risk to surface water receptors was considered to be low based on the low leachability of OCPs present and the Site being in a stable condition. Post-remediation (refer to Section 6) risk to surface water and groundwater is considered to be negligible on the basis that the source of contamination requiring remediation has been removed from the Site.

It is also noted that groundwater was not intersected by groundwater monitoring well MW01 which was installed to 6 m bgs and subsequently gauged as dry indicating a shallow groundwater bearing zone was not

present at the site. Additionally, the depth to regional groundwater is inferred to be 20 m bgs or greater (see Section 4.4.7) and reticulated potable water is supplied to the site and surrounding area. Therefore extraction of groundwater for beneficial use in the vicinity of the Site is considered unlikely.

### 4.4.17 Climate

The Site is located in Brisbane which has a sub-tropical climate. Key climate statistics represented as the annual average for Brisbane include:

- Rainfall: 1149.1 mm
- Maximum temperature: 25.5
- Minimum temperature: 15.7.

## 4.5 SUMMARY OF CONTAMINATION

This section provides a summary of contamination at the Site prior to the undertaking of remediation. This section summarises information from previous investigations of the Site completed between 2013 and 2021 which are described in Section 3.

Previous investigation sampling locations are shown in Figure 2, Appendix A. A summary of the ground conditions encountered at the sample locations is provided in Appendix K.4. Tabulated data from previous investigation locations is provided in Appendix C.7.1 and Appendix C.7.2. Tabulated data is compared to the investigation levels described in Section 3.4.6.

### 4.5.1 Lithology

Lithology on the Site is discussed in summarised in Section 4.4.4.

### 4.5.2 Contamination in Soil

The maximum concentration of OCPs and metals which have been reported in previous investigations of the Site (refer to Section 3) are summarised in the following table.

**Table 4-5 Maximum Reported Concentrations**

| Analyte (mg/kg ) | EIL – Res/Open Space (mg/kg) | HIL-A Residential Criteria (mg/kg) | Soil Materials Surface to 0.2 mbgs (mg/kg) | Soil Materials Deeper than 0.2 mbgs (mg/kg) | No. Samples Exceeding HIL-A Surface to 0.2 m bgs / deeper than 0.2 m bgs |
|---|---|---|---|---|---|
| **OCPs** | | | | | - |
| 4,4-DDE | | | 2.2 | 0.22 | - |
| a-BHC | | | <0.1 | <0.05 | - |
| Aldrin | | | 98 | 0.98 | - |
| Aldrin + Dieldrin | | 6 | 506 | 14 | 18 / 2 |
| b-BHC | | | <0.1 | <0.05 | - |
| chlordane | | 50 | 140 | 0.5 | 2 / 0 |
| d-BHC | | | <0.1 | <0.05 | - |
| DDD | | | 2.1 | 0.15 | - |
| DDT | 180 | | 23 | <0.2 | - |
| DDT+DDE+DDD | | 240 | 26.5 | 0.37 | - |
| Dieldrin | | | 420 | 14 | - |
| Endrin aldehyde | | | 0.24 | <0.05 | - |
| Endrin ketone | | | 8.5 | 0.05 | - |
| Endosulfan I | | 270 | 0.26 | <0.05 | - |
| Endosulfan II | | | <0.05 | <0.05 | - |
| Endosulfan sulphate | | | <0.1 | <0.05 | - |

| Analyte (mg/kg ) | EIL – Res/Open Space (mg/kg) | HIL-A Residential Criteria (mg/kg) | Soil Materials Surface to 0.2 mbgs (mg/kg) | Soil Materials Deeper than 0.2 mbgs (mg/kg) | No. Samples Exceeding HIL-A Surface to 0.2 m bgs / deeper than 0.2 m bgs |
|---|---|---|---|---|---|
| Endrin | | 10 | 6.5 | 0.1 | - |
| g-BHC (Lindane) | | | <0.1 | <0.05 | - |
| Heptachlor | | 6 | 1 | <0.05 | - |
| Heptachlor epoxide | | | 3.4 | 0.26 | - |
| Hexachlorobenzene | | 10 | <0.1 | <0.05 | - |
| Methoxychlor | | 300 | <0.2 | <0.2 | - |
| Toxaphene | | 20 | <1 | <1 | - |
| Total OCP | | | 527.38 | 14.52 | - |
| **Metals** | | | | | - |
| Arsenic | 100 | 100 | 32 | 23 | - |
| Cadmium | | 20 | 1.4 | <1 | - |
| Chromium (III+VI) | 245 | 100 | 100 | 180 | Note 2 |
| Copper | 196 | 6000 | 33 | 74 | - |
| Lead | 1112 | 300 | 160 | 120 | - |
| Mercury | | 10 | 0.1 | <0.1 | - |
| Nickel | 287 | 400 | 66 | 84 | - |
| Zinc (Note 1) | 420 | 7400 | 2000 | 160 | - |

Note 1: Zinc exceeded the EIL in three samples SS01, SS02 and HA11. There were no zinc exceedences of HIL-A.
Note 2: Refer to 'Note on Chromium' included in this section. The supplementary investigation concluded that Chromium is present as a Chromium III rather than Chromium IV and therefore the HILs in the NEPM (which are for Chromium IV) do not apply.

Sample locations which exceeded HIL-A are summarised in the following table.

**Table 4-6 Samples Locations Exceeding HIL-A**

| Sample Depth | Analyte | Exceeded HIL-A |
|---|---|---|
| Upper soil (0.0-0.2m | Aldrin + dieldrin | HA07/SA12<br>HA09<br>HA10<br>8-0.0<br>9-0.0<br>9P-0.0 (HA09)<br>10-0.0<br>11-0.0<br>13P-0.0 (HA07)<br>13P-0.2 (HA07)<br>14P-0.0 (HA10)<br>QC07 (DUP 14P-0.0 )<br>QC08 (TRIP 14P-0.0 )<br>15-0.0<br>34-0.0<br>36-0.0<br>BH14_0.1<br>BH21_0.1 |
| | Chlordane | HA02, HA03 |
| | Chromium (III + VI) | Note 2 |
| Deeper soil (>0.2m) | Aldrin + dieldrin | 10-0.45, 11-0.45 |
| | Chlordane | Nil |
| | Chromium (III + VI) | Note 2 |

Notes:

1) Sample location with a concentration at the health guideline level.

2) Refer to Section 4.5.2.4 in regard to chromium.

### 4.5.2.1 OCPs

OCP contaminants in soils were associated with historical application of termite barriers using termiticides around buildings.

Soil material with OCPs which exceed human-health based guidelines for residential use with accessible gardens (NEPM HIL-A[39]) were widely distributed and generally include upper soil materials north of the Main Hall Building and an area south of the Main Hall Building.

Elevated concentrations of OCPs were generally limited to soil materials less than 0.2 m below ground surface (bgs). The occurrence of elevated concentrations of OCPs in shallow soil materials is consistent the application of termiticides into the shallow soil materials and the chemical properties of OCPs detected which readily absorb to soils (particularly soils with high organic matter) and have low solubility (and therefore low leachability).

[39] Compliance with NEPM HIL-A guidelines will be required if the Site is to be removed from the EMR.

Higher concentrations of OCPs were predominately located in the upper soil deposits between the Accommodation Building and Main Hall Building, and in a small area south of the Main Hall Building and along the western perimeter of the Accommodation Building.

OCPs were not reported above the LOR in soil samples from the following areas:

- the concrete slab along the driveway along the eastern boundary of the Site (BH06 to BH08)
- the south eastern corner (BH16).
- the western boundary of the Site (BH17 to BH19).

Soil materials in the upper ground deposits (~ <0.25 m bgs) were considered to pose an unacceptable risk to human health where OCPs were present which exceed the NEPM HIL-A and due to the potential for ACM. OCPs also posed a potential unacceptable risk to ecological receptors based on the adopted guidelines. **Accordingly OCPs was a contaminant of concern for the Site.**

All soil materials with OCP contamination which required remediation were removed from the Site in the remediation works described in Section 6.

#### 4.5.2.2 Asbestos Containing Materials

Fragments of ACM and asbestos fines which exceed the nominated investigation levels (ILs) of 0.01% w/w and 0.001% w/w, respectively, were reported in previous investigations of the Site at the following locations (refer to Figure 3, Appendix A):

- SS01
- SS02
- SA01/A01
- Main Hall (under building)
- Accommodation Building (under building)
- Unsealed External Areas
- SA04/A04, SA06/A06, SA10/A10 (15 [40])

Fragments of ACM were not observed in the Supplementary Investigation and asbestos was not reported in soil samples analysed in 2021.

**Accordingly asbestos was a contaminant of concern for the Site.**

Based on the investigation data and as a precautionary measure the upper soil deposits (<0.25 m bgs) the following Areas of Concern (AoCs) were determined and are described further in Section 4.5.6 (refer to Table 4-7 and Figure 4A, Appendix A). These areas were considered to potentially contain ACM/asbestos fines[41]:

- Area 1A
- Area 1B
- Area 1C
- Area 3C
- Area 1
- Area 2
- Area 3A
- Area 3B.

[40] Sample location 15 is located adjacent to SA10/A10
[41] Note this was the inferred potential distribution of asbestos in soils pre-remediation based on the investigation data. During remediation ACM was found throughout the fill material on the Site.

During remediation ACM was found throughout the fill material on the Site. All fill materials were removed from the Site in the remediation works described in Section 6.

#### 4.5.2.3 Metals (other than Chromium and Arsenic)

With the exception of chromium, soil samples from previous investigations reported concentrations of metals which were below the NEPM HIL-A health guidelines. Zinc exceeded the EILs in fill materials in three samples, and were below the EILs in all other samples and samples deeper than 0.25 m bgs.

With the exception of chromium, all samples from soil material deeper than 0.2 m bgs reported metals with concentrations which were below the NEPM HIL-A guidelines, and the EILs.

**Accordingly metals were not contaminants of concern for the Site.**

#### 4.5.2.4 Chromium

In the Supplementary Investigation (refer to Section 3.4) Chromium was below the NEPM-HIL C and EILs, and exceeded the NEPM HIL-A in the following samples: BH06_0.5, BH07_0.3, BH08_0.3, BH16_0.5, BH21_0.3, and BH21_0.5. All of these samples were from natural materials, and at these locations the concentration of chromium was found to increase with depth.

The NEPM HIL-A guideline is based on Chromium VI which is commonly used as a solvent within industrial processes. As no source of chromium has been identified in fill materials and there is no previous industrial use of the Site, the source of chromium in these samples was considered to be natural and Chromium III. Analysis of Chromium (Total) and Chromium VI was undertaken from soil samples collected from MW01 at 0.25, 0.5, 0.75 and 1 m bgl. Concentrations of Chromium (Total) increased with depth however no positive detection of Chromium VI was reported. This finding supports the assumption that chromium reported in soil samples is Chromium III.

During remediation of the Site, fifteen representative samples of natural materials distributed over the Site were analysed for Chromium VI. All samples analysed reported a non-detectable concentration for Chromium VI, and provided an additional line of evidence to conclude that chromium in natural soils on the Site is Chromium III.

**Accordingly Chromium VI was not a contaminant of concern for the Site.**

Chromium III is an essential nutrient and does not have a guideline value in the NEPM. The US EPA regional screening level (THQ 0.1)[42] for Chromium III is 12,000 mg/kg. All soil samples had concentrations of chromium below this guideline.

#### 4.5.2.5 Organophosphate Pesticides and Arsenic

Organophosphate pesticides (OPPs) and arsenic can also be associated with the application of termiticides.

Previous investigations of the Site reported non-detectable concentration of OPPs. **Therefore OPPs were not contaminants of concern for the Site.**

The maximum concentration of arsenic reported in previous investigations of the Site was 32 mg/kg which was below the adopted health guidelines and ecological guidelines (100 mg/kg). Previous investigations of the Site have not identified elevated concentrations of arsenic on the Site which would likely be present if arsenic was historically used as a termiticide.

**Therefore arsenic was not a contaminant of concern for the Site.**

[42] https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables, accessed 2 December 2021

#### 4.5.2.6 Other Potential Contaminants of Concern

Previous investigations of the Site did not report the detection of other potential contaminants of concern (PCOC) including:

- PAH including soil materials containing a slag type material
- benzene, toluene, ethyl benzene and xylenes (BTEX)

Sample location SS04 in Coffey (2013) reported TRH in the $C_{16}$-$C_{34}$ fraction with concentration which was below the adopted HIL-A and EILs. No visual or olfactory signs of contamination were observed at this sampling location (and elsewhere on the site) however organic matter was present.

The TRH previously reported was considered a false positive, relating to organic matter within the shallow soil profile for the following reasons:

- no visual or olfactory signs of hydrocarbon contamination were observed at this sampling location
- the site history did not identify storage/use of hydrocarbons
- other potential organic contaminants (BTEX and PAH) where not reported in the sample analysed (or other samples analysed)
- the sample was collected from a depth and location where organic matter would be present.

Notwithstanding the above the soil material represented by sample location SS04 was removed as part of the remediation works undertaken in 2023 (refer to Section 6).

**Accordingly PAH, TRH and BTEX were not contaminants of concern for the Site.**

#### 4.5.2.7 Other Anthropogenic Materials

Section 3.6 of Schedule B1 of the NEPM requires consideration of aesthetic requirements which relate to non-hazardous foreign materials of anthropogenic origin which can be present in fill materials (e.g. fragments of concrete, metal, brick, ceramics, glass, ash, etc).

Fill containing anthropogenic materials which pose physical hazards (sharp and angular) were observed on the Site and were considered to be unsuitable for use in a park/open space and should be removed from the Site where there is a likelihood that future users of the Site may come into contact with these materials.

During remediation all fill material were removed from the Site in the remediation works described in Section 6.

### 4.5.3 Risk to Groundwater

A groundwater monitoring well was installed in the north western corner of the Site to 6 m bgs (refer to MW01 in Figure 2, Appendix A) in the Supplementary Investigation (refer to Section 3.4). Groundwater was not intersected and is likely to be at a depth greater than 20 m bgs (refer to Section 4.4.7). Risk to groundwater receptors was considered to be low based on the following lines of evidence:

- OCP contaminants on the site strongly absorb to soils and have low solubility/leachability. This is demonstrated by elevated concentrations of OCPs being reported in the upper soil materials (<0.2 m bgs) where the termiticides were historically applied, and substantially lower concentrations in deeper soil materials (>0.2 m bgs) which provides an additional line of evidence to support the conclusion the OCPs have low leachability/solubility on the Site. The risk of these contaminants leaching to underlying groundwater is therefore considered to be low.
- No shallow water bearing zone has been identified within 6 m of the ground surface, and conditions on the Site and surrounding area are unlikely to result in the formation of shallow water bearing zone (refer to Section 4.4.7).

The DESI *Contaminated land investigation document – approved form, Version 1.03, 19 May 2023* states the following on Page 6 of 24:

> *For the CLID to be in the approved form, the sampling program must have collected sufficient data to establish the nature and vertical and lateral extent of contamination in all relevant media. Where mobility of a contaminant is an issue, properties such as contaminant leachability and groundwater and soil vapour flow direction must be assessed.*

As noted above the investigation data for the Site has established that elevated concentrations of OCPs are in the upper soil materials (<0.2 m bgs) where the termiticides were historically applied, and OCPs have low solubility/leachability and therefore low mobility and are held in solid (soil/fill) media. Accordingly, it can be concluded that mobility of the contaminants is not of concern and therefore further consideration into contaminant leachability and sampling of groundwater media (i.e. in the NFB) is not warranted.

Post-remediation (refer to Section 6) risk to groundwater is considered to be negligible on the basis that the source of contamination requiring remediation has been removed from the Site.

### 4.5.4 Risk to Surface Water

A key finding of the Supplementary Investigation (refer to Section 3.4.8) was that prior to the undertaking of remediation the risk to surface water receptors was considered to be low based on the low leachability/mobility of OCPs present and the Site being in a stable condition with no visible signs of erosion on the Site.

Post-remediation (refer to Section 6) risk to surface water is considered to be negligible on the basis that the source of contamination requiring remediation has been removed from the Site.

### 4.5.5 Contaminants of Concern

In summary the Contaminants of Concern for the Site (in solid media) included:

- OCPs
- Asbestos.

### 4.5.6 Areas of Concern

Based on the completed investigations the Site was segregated into four main AoCs (Area 1 to Area 4). The AoCs were then further sub-divided based on contaminant concentration, lithology and the depth contamination, and implication of these attributes in regard to off-site disposal and the remediation of the Site. The AoCs are summarised in the following tables which have been reproduced from Appendix G in the RAP included in Appendix L.3:

- Table 4-7 which summarises the AoCs for ground surface to 0.25 m bgs; and the areas are shown in Figure 4A, Appendix A
- Table 4-8 which summarises the AoCs for ground surface to 0.25 m bgs; and the areas are shown in Figure 4B, Appendix A

It should be noted that during remediation ACM comprising broken sheets of cement sheeting were frequently encountered in fill materials on the Site, and accordingly decision was made to remove fill materials from the Site.

All fill materials and the materials described in these AoCs were removed from the Site during remediation (refer to Section 6).

**Table 4-7 AoCs Ground Surface to 0.25 m bgs**

| AoC | Description of Area and Requirement for Remediation |
|---|---|
| **Area 1A**<br>**Area 1B**<br>**Area 1C**<br>**Area 3C** | OCPs exceeded NEPM HIL-A guidelines for residential areas. While the majority of OCP contamination was expected to be within the first 0.2 m bgs of soil, OCP contamination potentially extended further into deeper soil deposits (~0.4 m bgs).<br>ACM was potentially present in shallow soil materials. Fill materials containing anthropogenic materials which pose physical hazards (sharp and angular) were considered unsuitable for use in a park/open space were also potentially present and were referred as "Unsuitable Fill Materials" (refer to note at end of table). |
| **Area 1** | OCPs in Area 1 exceeded NEPM HIL-A guidelines for residential areas respectively. While the majority of OCP contamination was expected to be within the first 0.2 m bgs of soil, OCP contamination potentially extended further into deeper soil deposits (~0.4 to 0.5 m bgs).<br>ACM was potentially present in shallow soil materials. Fill materials containing anthropogenic materials which pose physical hazards (sharp and angular) were considered unsuitable for use in a park/open space were also potentially present. |
| **Area 2** | Area 2 had detectable concentration of OCP with concentrations below NEPM HIL-A guidelines for residential areas with accessible gardens. Based on data from previous investigations OCP contamination was expected to be within the upper 0.2 m of soil, however there was potential for detectable concentrations to be present which are deeper than 0.2 m.<br>ACM was potentially present in shallow soil materials. Unsuitable Fill Materials were also potentially present. |
| **Area 3A**<br>**Area 3B** | Area 3A/3B had detectable concentration of OCP with concentrations below NEPM HIL-A guidelines for residential areas with accessible gardens[43]. Based on data from previous investigations OCP contamination was expected to be within the upper 0.2 m of soil, detectable concentrations have also been identified in materials deeper than 0.2 m bgs.<br>ACM was potentially present in shallow soil materials. Unsuitable Fill Materials were also potentially present. |
| **Area 4A** | OCPs in Area 4A were below the NEPM HIL-A guidelines for residential areas with accessible gardens. Detectable OCPs concentrations were observed at the perimeter of Area 4A (at sampling locations BH01, BH03, BH12). These detectable OCP concentrations were below the NEPM HIL-A guidelines for residential areas with accessible gardens.<br>ACM was not expected to be present in shallow soil materials in this area based on the site geology being natural material (and no apparent fill) and the soil material being covered in hardstand. |
| **Area 4B** | OCPs in Area 4B were not detected in the samples analysed from this area.<br>ACM was not expected to be present in shallow soil materials in this area based on available data and the soil material being covered in hardstand. |

Note: **Unsuitable Fill Materials** are those containing anthropogenic materials which pose physical hazards (sharp and angular) are unsuitable for use in a park/open space.

**Table 4-8 AoCs 0.25 m bgs to 0.4 m bgs**

| AoC | Description of Area and Requirement for Remediation |
|---|---|
| **Area 1** | OCPs in Area 1 exceeded NEPM HIL-A guidelines for parks and open space and residential areas respectively. While the majority of OCP contamination was expected to be within the first 0.2 m bgs of soil, based on the existing data OCP contamination extends further into deeper soil deposits (~0.4 to 0.5 m bgs). |
| **Area 2** | Area 2 had detectable concentration of OCP with concentrations below NEPM HIL-A guidelines for residential areas with accessible gardens. Based on the existing data OCP contamination was expected to be within the upper 0.2 m of soil, however there was potential for detectable concentrations to be present which are deeper than 0.2 m. |
| **Area 4A**<br>**Area 4B** | Materials in this area were to be excavated where Unsuitable Fill Materials were present. |

[43] Sample locations 6,7 and 4,5 are considered to be representative of Area 3A/Area 3B

### 4.5.7 Data Gaps and Limitation of Previous Investigations

As noted in Section 4.2.11 at the completion of the Supplementary Investigation the Site was considered sufficiently characterised to enable the preparation of the RAP (refer to Section 5) and undertake the remediation works (refer to Section 6). Additional sampling prior to remediation was required to further define the dimensions of Area 1C; this sampling was completed as part of the remediation works described in Section 6). In addition the RAP included processes for the management of unforeseen contamination (unexpected finds) if encountered during the remediation of the Site.

Site access constraints limited the sampling methodology to hand excavation / hand auguring / and a single mechanically drilled borehole in the north west corner of the Site. This limited the depth of excavations, and the visual characterisation of fill materials. Excavation of mechanically excavated test pits is preferable where fill materials are present, and ACM is a contaminant of concern. Hand sampling methods limited the depth of samples to <0.5 m bgs.

### 4.5.8 Remediation of the Site

Remediation of the Site was undertaken in 2023 and included the excavation and off-site disposal of soil materials requiring remediation and the removal of all fill materials from the Site. The remediation works undertaken including validation data are described in (refer to Section 6), and a post-remediation CSM is provided in Section 7.

Remediation of the Site involved the removal of materials which are represented by the sample data included Appendix C.7.1 and Appendix C.7.2. In addition to the materials represented by the sample data, during remediation ACM comprising broken sheets of cement sheeting were frequently encountered in fill materials on the Site, and accordingly decision was made to remove fill materials from the Site. These materials were managed as an unexpected find/unforeseen contamination. All fill materials were removed from the Site during remediation (refer to Section 6).

## 4.6 PRE-REMEDIATION CONCEPTUAL SITE MODEL

The following is a summary of the conceptual site model from the Supplementary Investigation included in Appendix L.2. A tabulated pre-remediation conceptual site model is provided in Section 4.6.1, and illustrative CSM is provided in Figure 15, Appendix A.

Historical termiticides applied to the soil on the Site as termite barriers, and ACM (most likely from buildings on the Site) are considered to be the **primary sources** of contamination on the Site.

Contamination present in soil as a result of the primary source is considered as a **secondary source** of **contamination**. Contaminant of concern associated with the application of termiticides on the Site include OCPs (mainly aldrin and dieldrin), and asbestos. Other OCPs present in soil included DDT+DDE+DDD, endosulfan I, endrin, heptachlor, endrin aldehyde and endrin ketone.

Once in soil, contamination has the potential to be distributed through **transportation pathways** such as erosion and deposition (wind and water) and the leaching of contaminants to groundwater and surface water, and anthropogenic activities which involve the movement of soil materials such as site redevelopment. Transportation pathways can also be considered as secondary sources of contamination (e.g. contamination in groundwater).

Based on the Supplementary Investigation, the transportation pathways considered to be relevant to the Site include erosion and deposition (wind and water), and anthropogenic activities which involve the movement of soil materials such as site redevelopment.

The leaching of contaminants to groundwater and surface water is considered to be low risk based on the OCP contaminants present which strongly absorb to soil and have low solubility/leachability. This is demonstrated by elevated concentrations of OCPs being reported in the upper soil materials (<0.2 m bgs) where the termiticides were historically applied, and substantially lower concentrations in deeper soil materials (>0.2 m bgs) which provides an additional line of evidence to support the conclusion the OCPs have low leachability/solubility on the Site. The risk of these contaminants leaching to underlying groundwater is therefore considered to be low.

No shallow groundwater water bearing zone has been identified within 6 m of the ground surface. The absence of shallow groundwater on the Site is consistent with the conditions which are unlikely to support the formation of a shallow groundwater aquifer for the following reasons.

The Site is located in an elevated area on a hill. In combination with the topography of the Site and surrounding area which slopes to the north, urbanisation of the local area with hard surfaces (i.e. roof, hard surfaces and roads) which discharge runoff into the stormwater drainage system, and natural soil types[44] which would retard infiltration of rainfall and promote surface water runoff, conditions of the Site and the surrounding area are more likely to support the shedding of rainfall as surface water runoff into the stormwater drainage system (refer to Section 4.4.2) and not promote conditions which support the ponding and infiltration of rainwater which would be required for the formation of a shallow groundwater aquifer.

Groundwater on the Site is expected to be hosted in the Neranleigh-Fernvale beds between 20 and 50 m bgs.

Pre-remediation the risk to surface water receptors was considered to be low based on the low leachability of OCPs present and the Site being in a stable condition with no visible signs of erosion.

Fill containing anthropogenic materials which pose physical hazards (sharp and angular) were observed on the Site and were considered to be unsuitable for use in a park/open space and should be removed from the Site where there is a likelihood that future users of the Site may come into contact with these materials.

**Receptors** could potentially be exposed to contaminants derived from the disturbance of contaminants present in within soil.

Potential receptors considered applicable redevelopment of the Site include:

- workers involved with the site redevelopment work
- persons involved with the cleaning clothing, vehicles and equipment used in redevelopment
- general public including persons who could be subject to contaminated media generated during redevelopment (e.g. dust)
- ecological receptors including native and domestic terrestrial flora and fauna
- surface water receptors.

Post redevelopment potential receptors which may be exposed to contaminants in soil include:

- general public accessing the park and community facilities
- persons involved with maintenance of the park and community facilities
- persons who work at the community facilities
- persons who could be subject to contaminated media generated from the Site (e.g. dust)
- ecological receptors including terrestrial and aquatic flora and fauna (including native and domestic terrestrial fauna).

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- [44] Natural soils on the Site and the surrounding area are silty clays and the underlying materials being mudstones. These materials are likely to have a lower permeability and therefore retard surface water infiltration into the underlying materials (refer to Section 4.4.4).

- surface water receptors.

**Exposure pathways** for human receptors include dermal contact, ingestion, inhalation (dust and fibres) and plant uptake mechanisms. For a community park setting the consumption of home grown produce may potentially occur, and therefore the consumption of produce, and ingestion of soil adhered to produce should also be considered.

Exposure pathways for ecological receptors include direct contact and ingestion for invertebrates. Exposure pathways for vertebrates (mammals/birds) include bioaccumulate OCPs through the consumption of organisms and/or direct contact with the soil.

### 4.6.1 Tabulated CSM

The following table provide a CSM for source-pathway-receptor linkages for the Site based on the pre-remediation condition of the Site and landuse involving open space and community use. The table includes a summary of whether complete source-pathway-receptor linkages (exposure pathways) could occur. In regard to this summary, note:

- ‘Likely’ refers to an exposure pathway which could occur and if they occur there is potential for an unacceptable risk to the receptor (i.e. a complete exposure pathway)
- ‘Potential’ refers to an exposure pathway which could occur however further assessment would be required to establish whether an unacceptable risk to receptor could occur.
- ‘Unlikely’ refers to an exposure pathway which are considered unlikely to occur and therefore it is unlikely that there would be an unacceptable risk to receptor (i.e. an incomplete exposure pathway).
- ‘Not applicable’ refers to an exposure pathway which is not considered to be plausible and therefore incomplete.

**Table 4-9 Pre Remediation Conceptual Site Model (Source-Pathway-Receptors)**

| Contamination Source | Contaminants of Concern | Media | Plausible Exposure Pathways | Receptors | Complete exposure pathway (without remediation) |
|---|---|---|---|---|---|
| Asbestos containing materials (ACM) in Fill Materials | Asbestos | Fill/topsoil materials | Inhalation of fibres | Construction workers | Likely |
| | | | | General public including persons who could be subject to contaminated media generated during redevelopment and post-construction | Likely |
| | | | | General public accessing the Site in the future | Likely |
| | | | | Surrounding land users/neighbouring properties | Potential |
| | | | | Terrestrial ecological receptors at the Site | Likely |
| Anthropogenic Materials in fill material | Anthropogenic Materials which pose a physical hazard | Fill | Dermal contact | General public including persons who could be subject to contaminated media generated during redevelopment and post-construction | Potential |
| Historical termiticides applied to Site buildings as termite barriers | OCPs | OCPs in soil media | Inhalation of contaminated dust | Construction workers | Likely |
| | | | Dermal contact with contaminated soil | General public including persons who could be subject to contaminated media generated during redevelopment and post-construction | Likely |
| | | | Ingestion of contaminated soil | General public accessing the Site in the future | Likely |
| | | | Biological uptake mechanisms | Surrounding land users/neighbouring properties | Potential |
| | | | | Terrestrial ecological receptors at the Site | Potential |
| | | Surface water with OCPs | Ingestion | Construction workers | Unlikely |
| | | | Dermal contact | General public including persons who could be subject to contaminated media generated during redevelopment and post-construction | Unlikely |
| | | | | General public accessing the Site in the future | Potential |
| | | | | Surrounding land users/neighbouring properties | Unlikely |
| | | | | Terrestrial flora and fauna | Potential |
| | | | Biological uptake mechanisms | Aquatic flora and fauna in Norman Creek (drain) | Unlikely (Note 2) |

| Contamination Source | Contaminants of Concern | Media | Plausible Exposure Pathways | Receptors | Complete exposure pathway (without remediation) |
|---|---|---|---|---|---|
| | | Groundwater with OCPS | Ingestion<br><br>Dermal contact | Construction workers<br><br>General public including persons who could be subject to contaminated media generated during redevelopment and post-construction<br><br>General public accessing the Site in the future<br><br>Surrounding land users/neighbouring properties<br><br>Terrestrial flora and fauna within the Property<br><br>Aquatic flora and fauna in Norman Creek (drain) | Not applicable (Note 1)<br><br>Not applicable (Note 1)<br><br>Not applicable (Note 1)<br><br>Not applicable (Note 1)<br><br>Not applicable (Note 1)<br><br>Not applicable (Note 1) |
| | | Terrestrial biota within the Site | Consumption, bioaccumulation, biomagnification | Construction workers<br><br>General public accessing the Site if the future<br><br>Terrestrial flora and fauna within the Property | Not applicable<br><br>Unlikely<br><br>Potential |
| | | Aquatic biota in Norman Creek (drain) | Consumption, bioaccumulation, biomagnification | Construction workers<br><br>General public accessing Norman Creek (drain)<br><br>Aquatic flora and fauna in Norman Creek (drain) | Unlikely<br><br>Unlikely<br><br>Unlikely |

Note 1: Groundwater has not been observed on the Site to a depth of 6 m bgs, and risk to groundwater from OCP contamination in soil is considered to be very low to negligible.
Note 2: Pre-remediation the risk to surface water receptors was considered to be low based on the low leachability of OCPs present and the Site being in a stable condition with no visible signs of erosion.

# 5. REMEDIATION ACTION PLAN

This section summarises information from the RAP included in Appendix L.3.

## 5.1 REMEDIATION STRATEGY

The remediation strategy for the Site was to remove contaminated soil from the Site to enable the Site to be removed from the EMR.

Soils removed from the Site were to be disposed to a licenced landfill. Other potential remediation options such as containment (e.g. capping) were not considered based on the requirement from DAWE to remove the contaminated soil from the Site and the property from the EMR. Alternatives to disposal to a licenced landfill such as thermal destruction are considered cost prohibitive and were not considered.

## 5.2 REMEDIATION OBJECTIVE

The primary objectives for the remediation of the Site are to make it suitable for park and community use, and to remove contaminated soil from the Site as far as practicable such that the Site can be removed from the EMR (unrestricted landuse).

## 5.3 DATA QUALITY OBJECTIVES

This section reproduces the Data Quality Objectives in the RAP included in Appendix L.3.

As stated in Section 18 Appendix B of Schedule B2 of the ASC NEPM, the DQO process is a seven-step iterative planning approach used to define the type, quantity and quality of data needed to support decisions relating to the environmental condition of a site.

The seven-step DQO process adopted for the validation of remediation is summarised in the following table.

**Table 5-1: Data Quality Objectives from RAP**

| | |
|---|---|
| **1. State the problem** | The primary objectives for the remediation of the Site are to make it suitable for park and community use, and to remove the OCP contaminated soil from the Site as practicable such that the property can be removed from the EMR.<br><br>Remediation is required to remove the Site from the EMR and will include:<br><br>• the removal of OCP impacted soil materials which exceed the Remediation Criteria in Section 7.3 of the RAP included in Appendix L.3<br>• the removal of Unsuitable Fill Materials (fill materials containing anthropogenic materials which pose physical hazards (sharp and angular) are unsuitable for use in a park/open space)<br><br>Validation of the Site is required to confirm that the remediation objectives have been achieved. The main problems are:<br><br>• What areas require remediation?<br>• How should site soils be validated?<br>• What validation sampling density should be used?<br>• What contaminants should be analysed for? |

| | |
|---|---|
| **2. Identify the decision** | Is the data suitable for assessing whether the areas requiring remediation have been remediated?<br><br>Is the Site suitable for the proposed land uses? |
| **3. Identify inputs to the decision** | The primary inputs to assessing the above include:<br><br>• Previous investigations (where applicable)<br>• Field observations including the presence of Unsuitable Fill Materials<br>• Analytical data of validation sample media, and quality assurance / quality control (QA/QC) samples<br>• Data quality protocols<br>• Remediation criteria (refer to Section 7.3 of the RAP included in Appendix L.3). |
| **4. Define the boundaries of the study** | The boundaries for the validation sampling program are identified as follows:<br><br>• Spatial Boundaries: Lot 123 on RP46047, Lot 124 on RP46047, and Lot 125 on RP46047.<br><br>• Temporal boundaries: The status of the sampling points at the time of the investigation.<br><br>• The vertical study boundary will be the depth of the validation samples described in Section 8.6 of the RAP included in Appendix L.3. |
| **5. Develop a decision rule** | The decision rules to be applied to the DSI include:<br><br>For OCPs in soil, the following approach is to be adopted:<br><br>• Where OCPs concentrations for each sample are below the adopted remediation criteria, no further remediation is required.<br><br>• Where soil contaminant concentrations are reported to exceed the adopted remediation criteria, and it is not practicable to remediate the Site so it can be removed from the EMR, the soil contaminant concentrations will be compared to NEPM HIL-C criteria. If there is an exceedance of HIL-C remediation criteria the following additional steps will be undertaken:<br>– Where sufficient data is available, calculate the 95% Upper Confidence Level of the mean (95%UCL), data range and standard deviation.<br>– Where the 95% UCLs are less than the assessment criteria and no individual results in the data set are to be greater than 250% of the assessment criteria; and the standard deviation of the data set is to be within 50% of the assessment criteria, no further remediation is required.<br>– Where the 95% UCL is more than the assessment criteria, consider these results in the context of the current CSM to evaluate whether there are plausible pollutant linkages remaining.<br>– If plausible pollutant linkages are identified, then further remediation should be undertaken to remove impacted soil.<br><br>For Unsuitable Fill Materials, the following approach is to be adopted:<br><br>• A SQP who is competent in the identification of Unsuitable Fill Materials will inspect the site to confirm that these materials have been removed. |
| **6. Acceptable limits on decision error** | Decision errors are incorrect decisions caused by using data that is not representative of site conditions due to sampling or analytical error. As a result, a decision may be made that remediation/management is not needed when it is, or vice versa. There are two types of decision error: |

| | |
|---|---|
| | • Sampling errors, which occur when the samples collected are not representative of the conditions within the investigation area; and<br>• Measurement errors, which occur during sample collection, handling, preparation, analysis and data reduction.<br><br>To consider whether decision errors have been made, an assessment of data quality indicators will be undertaken as described in Section 8.6.4 (including a QA/QC assessment of the data collected). The closeness of the data to the assessment criteria will also be considered. |
| **7. Optimise the design for obtaining data** | The methodology and rationale for obtaining relevant data for validation is described in Section 8.6 of the RAP included in Appendix L.3. |

## 5.4 REMEDIATION CRITERIA

This section reproduces the remediation criteria from Section 7.3 of the RAP included in Appendix L.3.

The remediation criteria for the soil remediation is the NEPM residential land use (HIL-A) such that the Site can be removed from the EMR.

### Note on ecological receptors

Following implementation of the proposed remediation strategy it is considered that there would be no plausible exposure pathway for ecological receptors on the basis that the majority of the contaminant source would have been removed from the Site.

### Note on groundwater and surface water receptors

OCPs have low solubility/leachability and therefore low risk of leaching into surface water and groundwater is low and of negligible concern.

Post remediation the risk to surface water and groundwater receptors is considered to be low based on the removal of the contaminant source from the Site, the reinstatement of the Site with clean fill, and stabilisation of soil materials with ground cover and/or sealed areas. Accordingly no remediation criteria are considered to be required for the protection of groundwater and surface water receptors.

### Modified Criteria for Arsenic

A modified remediation criteria for arsenic for the validation of the Site was developed based on information provided in the NEPM 2013 Toolbox, and is documented in Appendix J.1.

### Modified Criteria for Asbestos

A modified remediation criteria for asbestos for the validation of the Site was developed and is included in Appendix J.2. During remediation it was identified that fill materials on the Site contain ACM. Visual confirmation of natural ground following the removal of fill materials was therefore required for the remediation of the Site.

### Note on Chromium

Chromium (Total) was reported at concentrations which exceed the NEPM HIL-A Tier 1 guideline (100 mg/kg) in samples of natural soils in the Supplementary Investigation (refer to Section 4.5.2.4) and from natural materials in validation samples undertaken in validation sampling (refer to Section 6.9.3).

The NEPM HIL-A Tier 1 guideline is based on hexavalent chromium (Chromium VI) which is commonly used as a solvent within industrial processes. Chromium VI was not detected in the Supplementary Investigation and from representative samples undertaken in validation sampling (refer to Section 6.9.3).

As no source of chromium has been identified in fill materials in the Supplementary Investigation and there was no previous industrial use of the Site, the source of chromium in these samples is considered to be natural and Chromium III.

Chromium III is an essential nutrient and does not have a guideline value in the NEPM. The US EPA regional screening level (THQ 0.1)[45] for Chromium III is 12,000 mg/kg and has accordingly been adopted as the Remediation Criteria for Chromium (Total) for the final validation samples.

## 5.5 MATERIALS REQUIRING REMEDIATION

Based on the data from previous investigations materials requiring remediation to achieve the remediation objective were identified and documented in Section 8 and Appendix G of the RAP (refer to Appendix L.3). The areas which were identified in the RAP as requiring remediation are shown in Figure 4A and Figure 4B, Appendix A and summarised in the following tables.

**Table 5-2 Materials Requiring Remediation Ground Surface to 0.25 m bgs as per Figure 4A**

| Area | Excavation Depth (m bgs) | Approximate Bank Excavation Volume ($m^3$) |
|---|---|---|
| Area 1A | 0.25 | 20 |
| Area 1B | 0.25 | 30 |
| Area 1C | 0.25 | 10 |
| Area 3C | 0.25 | 10 |
| Area 1 | 0.25 | 195 |
| Area 2 | 0.2 | 100 |
| Area 3A | 0.2 | 25 |
| Area 3B | 0.2 | 35 |
| Area 4A | 0.2 | 70 |
| Area 4B | Note 1 | - |

Note 1: Materials from Area 4B require removal where **Unsuitable Fill Materials** are present. Unsuitable Fill Materials are those which contain anthropogenic materials which pose physical hazards (sharp and angular) are unsuitable for use in a park/open space are also potentially present and are herein referred to in this RAP as “Unsuitable Fill Materials”.

**Table 5-3 Materials Requiring Remediation 0.25 to 0.4 m bgs as per Figure 4B**

| Area | Excavation Depth (m bgs) | Approximate Bank Excavation Volume ($m^3$) |
|---|---|---|
| Area 1 | 0.25-0.4 | 155 |

[45] https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables, accessed 2 December 2021

| | | |
|---|---|---|
| **Area 2** | 0.25-0.4 | 120 |
| **Area 4A** | Note 1 | - |
| **Area 4B** | Note 1 | - |

Note 1: Materials from Area 4A/4B require removal where Unsuitable Fill Materials are present.

During remediation ACM were observed in fill materials over the Site which required a change to the planned excavation extents. This is described below in Section 6.

# 6. REMEDIATION AND VALIDATION WORKS

## 6.1 KEY PARTIES INVOLVED IN REMEDIATION AND VALIDATION

The following companies were involved in the remediation and validation works at the Site.

**Table 6-1 Key Parties involved in Remediation and Validation**

| Role | Organisation | Responsible Persons | Responsibilities |
|---|---|---|---|
| **Client** | Department of Veteran Affairs | Dave Binney | • Engagement of Principal Contractor, SQP and Site Auditor.<br>• Compliance with statutory requirements. |
| **Principal Contractor / Remediation Contractor** | Enviropacific Services (EPS) | Mick Merriman | • Implementation of RAP and EMP<br>• Employment a Competent Person who was responsible for undertaking full-time supervision of the remediation work. The Competent Person was to be experienced in the undertaking remediation works and have the necessary experience to:<br>○ visually identify soil materials containing suspect/potential ACM<br>○ visually identify soil materials which contain anthropogenic materials which pose physical hazards (i.e. sharp and angular) that are unsuitable for use in a park/open space<br>○ identify unforeseen contamination<br>○ implement the RAP and EMP including but not limited to the required controls to manage potential risks to human health and the environment. |
| **Suitably Qualified Person** | Tetra Tech Coffey | Jeremy Wicks | • Provide technical support to the Principal Contractor/Remediation Contractor in regard to contaminated land investigation and management<br>• Preparation of Disposal Permits for submission to DESI by EPS<br>• Complete site inspections during remediation to check compliance against the RAP and EMP<br>• OCP air monitoring during remediation<br>• Collection of validation samples<br>• Preparation of this Validation Report. |
| **Licensed Asbestos Assessor (LAA)** | Tetra Tech Coffey | Laura Smith<br>NTWS-AA-463856<br><br>Patricy Cortes<br>NSW LAA001543 | • Review of contractor Safe Work Method Statement (SWMS) relating to asbestos aspects of the project and their Asbestos Removal Control Plan (ARCP)<br>• Asbestos and lead control air monitoring<br>• Clearance inspections (and clearance air monitoring where required) following the completion of demolition and remediation works.<br>• Issue of an asbestos Clearance Certificates during demolition and remediation works (refer to Appendix K.20) |
| **Environmental Scientist** | Tetra Tech Coffey | Alistair McLay<br>Megan Thomson<br>Michael Page | • Collection of validation samples under the supervision of the SQP |

| Role | Organisation | Responsible Persons | Responsibilities |
|---|---|---|---|
| **DESI-Approved Site Auditor** | Epic Environmental | Louise Cartwright | • Undertake role of DESI approved Site Auditor (CLA) and conduct auditing services in accordance with provisions of Chapter 12, Part 3A of the Environmental Protection (EP) Act 1994 |
| **OCP Dust Monitoring** | Ektimo | Henry Diona | • OCP air monitoring during remediation including set up of samplers, sampling in accordance with the methodology included in the RAP, analysis of samples at the NATA accredited laboratory and preparation of the factual report on air monitoring. |
| **Waste Facility** | Remondis – Ti Tree Bioenergy | Edward Hartigan | • Acceptance of contaminated soil to monocell disposal cell, as per DESI soil disposal permit |
| | BMI | Peta Rutherford | • Stapylton: Acceptance of contaminated soil to lined disposal cell, as per soil disposal permit<br>• Acacia Ridge: Acceptance of concrete for recycling<br>• Redbank: Acceptance of soil for reuse |

## 6.2 SUMMARY OF REMEDIAL WORKS

Following the completion of demolition of the buildings[46] by EPS, the remedial works were undertaken between August and December 2023. In summary the remedial works included:

- Site establishment by EPS including the following:
  - Work area fencing, warning signage and temporary site facilities.
  - Disconnection of building services to the Site
  - Occupational health and safety controls and monitoring.
  - Environmental monitoring and controls.
  - Vehicular transit routes onto and off the site.
  - Location, isolation, relocation, protection and/or termination of services potentially affected by the remediation/redevelopment works, if any.
  - Contingency planning and controls to address unexpected finds.
- Establishment of OCP dust monitoring stations by Ektimo prior to the undertaking of site work. Undertaking of air quality monitoring during remediation (refer to Section 6.4).
- Setting out of remediation areas by EPS based on the requirements of the RAP.
- Setting out of the Site boundaries by EPS based on survey plan information provided by DVA to EPS.
- Excavation of soil materials required for the remediation between 28 August 2023 and 23 October 2023. Based on the results of validation sampling, the removal of additional soil material along the northern boundary of the Site was undertaken between 13 December 2023 and 14 December 2023 to remove soil materials with asbestos (refer to Section 6.5).
- Removal of building services from the Site with the exception of a pre-existing sewer connection shown in Figure 12, Appendix A (refer to Section 6.6.2), and the reconnection of a water main to the Site.
- Off-site disposal of excavated materials under DESI approved Disposal Permits by EPS (refer to Section 6.7).
- Inspection of excavated areas by the SQP prior to validation sampling. Collection of validation samples by experienced TTC Environmental Scientists under the supervision of the SQP (refer to Section 6.9).
- Submission of validation samples to NATA accredited laboratories including Eurofins (primary and intra-laboratory duplicate samples) and ALS (inter-laboratory duplicate samples).

[46] Demolition was undertaken between May and August 2023.

- Preparation of this Validation Report.

The remediation of the Site was undertaken in general accordance with the requirements of the RAP. A deviation from the RAP was the requirement to remove all fill materials from the Site based on the presence of ACM in fill materials. This requirement is discussed in Section 6.5.

Photographs of the general condition of the Site pre and post remediation are shown in Appendix D.3.

## 6.3 INSPECTIONS DURING REMEDIATION

Inspections undertaken by the SQP during remediation are summarised in Table 6-2.

In summary inspections undertaken by the SQP confirmed that the remedial works being undertaken by EPS were in general accordance with the RAP and EMP. At the completion of excavations for remediation, excavated areas were inspected by the SQP to confirm that materials had been excavated to required excavation depth and to natural ground (refer to Section 6.5).

**Table 6-2 Summary of Site Inspections by the SQP**

| Date | Comment |
|---|---|
| 3/7/2023 | Pre-remediation inspection of the Site during demolition works to discuss the timing of the remedial works. Inspection of areas which were previously covered in buildings and not accessible in previous investigations. |
| 4/8/2023 | Pre-remediation meeting with EPS to discuss the RAP, EMP, health and safety requirements, and ambient air quality monitoring. |
| 28/8/2023 | Inspection at commencement of remediation. EPS inducted SQP, and briefed SQP on site controls being implemented. Asbestos in fill materials was discussed in the meeting and the requirement to excavate all fill materials. Inspection of the OCP dust samplers installed at the Site. SQP discussed the Disposal Permit(s) and Waste Levy Exemption and the requirement for waste tracking with EPS, and the requirement to adhere to the conditions of these approvals. |
| 31/8/2023 | Inspection at commencement of remediation. Setting out of sample locations for further characterisation of Area 1C (refer to Section 6.9) |
| 5/9/2023 | Inspection of remediation excavation works along the southern boundary of the Site. Discussion of excavations around the heritage fence (Note 1) with EPS. |
| 7/9/2023 | Inspection of remediation excavation works along the southern boundary of the Site. Inspection of portion of exposed heritage footings of heritage fence. Discussion with EPS on the requirements for the importation of materials and the requirement to create a designated area for the stockpiling of these materials. |
| 12/9/2023 | Inspection of remediation excavation works along the southern boundary of the Site. Setting out of sample intervals along the wall and the requirement to sample each strata encountered along boundary walls with the TTC Environmental Scientist. Inspection of portion of exposed heritage footings of heritage fence and imported materials. |
| 18/9/2023 | Inspection of eastern boundary with EPS and discussion of excavations along this boundary. Discussion of sampling requirements with the TTC Environmental Scientist. |
| 21/9/2023 | Inspection of western boundary and discussion of excavations along this boundary. Inspection of trench excavation. Discussion of sampling requirements with the TTC Environmental Scientist. |
| 6/10/2023 | Inspection of site during excavations along the southern boundary of the Site. |
| 10/10/2023 | Inspection of site during excavations along the western boundary. Inspection of southern boundary excavations including the excavated trench along this boundary. Discussion of sampling requirements with the TTC Environmental Scientist along the western, southern boundary and trench. |
| 16/10/2023 | Inspection of site during excavations. Discussion of sampling requirements with the TTC Environmental Scientist along the western boundary. EPS was observed to be undertaking dust suppression. |

| Date | Comment |
|---|---|
| 18/10/2023 | Inspection of site during excavations. Inspection trenches excavated in the eastern portion of the Site. Discussion of sampling requirements with the TTC Environmental Scientist along the western boundary. |
| 26/10/2023 | Inspection of site at completion of planned excavations. Setting out of sampling grid with surveyor, and the extent of boundary excavations. Discussion of sampling requirements with the TTC Environmental Scientists. |
| 4/12/2023 | Inspection of site to discuss validation results with the Site Auditor and EPS. During the inspection it was agreed that further excavation was to take place along the full extent of the northern boundary (approximately 0.3 m in width and 0.1 m deep).<br>In the meeting the exceedance of Arsenic in the limited number of sample locations along the eastern boundary was discussed. It was discussed that it was not practicable to undertake further excavations along this boundary noting that excavation further east would require excavation into the adjoining lot (private property). It was discussed that a combination of a modified remediation criteria and statistical assessment of data could be considered to assess risk from these exceedances.<br>This assessment was subsequently undertaken by the SQP and is included in this document. Refer to Section 5.4 and Appendix J.1 for further information on the modification of the arsenic criteria and the statistical assessment undertaken.<br>Service trenches where asbestos had been reported were also discussed. |
| 13/12/2023<br>14/12/203 | Inspection of site during additional excavations along the northern boundary of the site. Discussion of sampling requirements with the TTC Environmental Scientist. |

Note 1: The heritage fence (brick) is located in the north west corner of the Site and is shown in Figure 11, Appendix A. The heritage fence is founded on natural ground and located on the boundary of the Site. During remediation fill materials were removed to the boundary of the Site via a combination of a mechanical and hand excavations. The heritage fence is to be retained as a feature on the Site. Photographs of excavations around the heritage fence are shown in Appendix D.1.

## 6.4 AIR QUALITY MONITORING DURING REMEDIATION

### 6.4.1 OCP Pesticides

OCP dust monitoring was undertaken in accordance with the requirements of the RAP between 28 August 2023 and 23 October 2023. OCP dust monitoring was not undertaken between 13 December 2023 and 14 December 2023 on the basis that materials requiring remediation for OCPs had been removed from the Site.

OCP dust samples were analysed by the Australian Government National Measurement Institute (NMI). A report on the OCP dust monitoring is provided in Appendix I.1. In summary detectable concentrations of OCPs were reported for the following analytes: Heptachlor, Aldrin, trans-Chlordane, cis-Chlordane, Dieldrin.

All samples reported concentrations of OCPs below the residential air quality guidelines included in Section 10.7 of the RAP (refer to Appendix L.3) which have also been reproduced in the report included in Appendix I.1.

### 6.4.2 Asbestos

Asbestos air quality monitoring was undertaken throughout the duration of the remediation works. Asbestos air monitoring results are included in Appendix I.2. In summary asbestos air monitoring sample results were <0.01 fibres/ml[47],[48].

[47] The air monitoring results are below the lowest detectable limit of 0.01 fibres/mL for static air monitoring as required in accordance with the Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres, 2nd Edition [NOHSC:3003 (2005)].

[48] Three samples in Appendix I.2 reported the error 'Void' (Sample DH638585, 24/8/23 and Sample 5251, 20/10/23) or 'Rejected' (Sample DH635237, 24/10/23). The errors were result of a factor such as dust overload or flow rate deviation (> 10% as per the test method, e.g. from pump failure) which makes the sample invalid. These types of errors are

During site excavation active dust suppression was undertaken by EPS to mitigate dust emissions. A photograph of active suppression is presented in Plate 4 as follows.

Plate 4: Active dust suppression during site excavation works along the eastern boundary

common on asbestos air monitoring programs and do not invalidate other data points or the representativeness of the air monitoring program undertaken. For the DVA remediation project all samples had results <0.01 fibres/ml. The dataset provides confirmation that dust suppression controls put in place by the Principal Contractor during remediation were effective.

## 6.5 EXCAVATION OF MATERIALS REQUIRING REMEDIATION

Excavation and removal of materials requiring remediation commenced on the 28 August 2023 in accordance with the RAP. The general sequence of excavation involved the excavation of materials from south to north over the Site.

As excavation commenced, frequent occurrence of ACM were reported in fill materials on the Site. ACM were also observed in the bedding material surrounding services and/or in the service material (e.g. pipe). Examples of ACM fragments found in ash fill materials during excavation are provided in the photographs presented in Plate 5 below.

Plate 5: Examples of ACM in fill material

The finding of ACM in fill materials was considered to be **unforeseen contamination** and managed under Section 8.5 of the RAP included in Appendix L.3.

Based on these findings a decision was made in-conjunction between EPS, DVA, the Site Auditor and the SQP to modify the planned extent of remediation so that all fill materials on the Site, and bedding materials associated with buried services were to be removed and disposed off-site to an appropriately licenced landfill under DESI approved Disposal Permit(s) (refer to Section 6.7).

The disposal of the fill materials with ACM were already permitted under the DESI approved disposal permits. In addition remediation was being undertaken under an ARCP and therefore the required controls were in place to remove these materials.

Excavated materials were not stockpiled on the Site and were placed directly into skip bins and covered. Photographs of covered skip bins are provided in Section 6.7.

At the completion of the remediation works in December 2023 a total of approximately 1,400 tonnes of material were disposed from the Site (refer to Section 6.7). Assuming an in-situ bulk-density of 1.6 tonnes/m$^3$, approximately 875 m$^3$ of fill/soil materials were removed from the Site. Based on the area of the Site of 1,933m$^2$ this equates to an average excavation depth of approximately 0.45 m over the Site.

A plan showing the lateral extent of excavations and surveyed ground levels at the completion of remediation is provided in Figure 14, Appendix A.

Table 6-3 provides a description of the lateral extents of excavations. Representative photographs of boundary excavations are shown in Appendix D.1.

**Table 6-3 Summary of Lateral Extent of Remediation Excavations at Boundary**

| Boundary | Comment |
|---|---|
| Eastern | Excavation undertaken to boundary fence line along the eastern side of the Site which is the property boundary with the adjoining lot. |
| Northern | Excavation undertaken along the northern boundary extended approximately 0.1 m north of the northern property boundary which was defined as fence line along this boundary. |
| Southern | Excavation undertaken to the retaining wall located along the southern boundary of the Site along Headfort Street which is the practicable limit of excavation and is the southern boundary of the Site. |
| Western | Excavation undertaken to approximately 0.5 m west of western boundary of the Site along Newdegate Street. |
| Southern Western Corner | Excavation extended approximately 0.5 m south west of south-western boundary of the Site with the exception of the heritage brick fence. Excavations were undertaken to the footings of the heritage fence which were observed to extend into the natural ground on the Site. |

During excavation, bedding material associated with service trenches on the Site were stripped to natural ground. The approximate location of the service trenches is shown in Figure 7, Appendix A.

Excavation depths in the vicinity of sample location 11 and 10 was approximately 0.75 m. Validation sampling results reported concentrations of OCPs which were non-detect or below the remediation criteria (refer to Section 6.9.3.1.

### 6.5.1 Unforeseen Contamination

Unforeseen contamination encountered during remediation comprised ACM in fill materials.

## 6.6 POST-REMEDIATION GROUND LEVELS AND SERVICES

### 6.6.1 Ground Levels

Post-remediation ground surface levels are shown in Figure 14, Appendix A. Ground-levels on the Site are lower post-remediation however the direction of the slope of land on the Site to the north is similar to pre-remediation site conditions.

### 6.6.2 Services

Services which remain on the Site at the completion of remediation are shown in Figure 12, Appendix A and include:

- a water main installed by EPS connection located on the eastern boundary
- a sewer main in the northern eastern corner of the Site
- a sub-surface gravel drain installed by EPS which connects to a PVC stormwater pipe at the Site boundary and discharges into the gutter of Newdegate Street. Drainage on the Site to Newdegate Street is similar to pre-remediation site conditions.

| | |
|---|---|
| | |
| Photograph showing water main connection and materials being removed around this service. | Photograph showing excavated service trench along the northern boundary and the exposed sewer main at the end of the trench. A gravel drain was installed by EPS in the service trench shown (refer to Figure 12, Appendix A). |
| **Plate 6: Images of services and service trenches** | |

## 6.7 DISPOSAL OF EXCAVATED MATERIALS

Prior to undertaking of remedial works, two Disposal Permits (SDP010002201 and SDP010002171) and a Waste Levy Exemption (230021CSE) were obtained and held by EPS. During remedial works and following the decision to remove all fill materials from the Site (refer to Section 6), an additional Disposal Permit was obtained (SDP010002171) and held by EPS. A summary of the disposal authorisations is provided in Table 6-4.

During remediation, waste tracking was undertaken by EPS. Records provided by EPS with regard to the disposal of materials under the disposal authorisations is provided in Appendix H.1 and summarised in Table 6-5, and is based on waste tracking records provided by EPS included in Appendix H.2.

Excavated materials were not stockpiled and were placed directly into skip bins and covered. An example of covered skip bins observed during an inspection of the site is provided in the following photographs presented in Plate 7.

Example of covered skip bin 5/9/23

Example of covered skip bin 16/10/23

**Plate 7: Covered waste skip bins**

### Delineation of Area 1C

Prior to the excavation and disposal of materials from Area 1C six additional samples (0-0.1 m) were collected on the 31 August 2023 and analysed for OCP pesticides. The sample locations are shown in Figure 5, Appendix A and the results are included in Appendix C.5.1 and Appendix C.5.2. All results reported concentrations within lined landfill acceptance limits and confirmed the boundary of Area 1C as defined in the RAP was appropriate.

**Table 6-4 Summary of Disposal Authorisations held by EPS**

| DESI Reference Number | Authorisation Type | Receival Site | Approved Quantity (m3) | Approved Quantity (tonnes) | Comment |
|---|---|---|---|---|---|
| SDP010002201 | Disposal Permit (Lined Landfill) | BMI Group<br>Stapylton Resource Recovery Facility<br>144 Rossmanns Road, Stapylton, QLD<br>(Lots 2 and 3 SP279441) | 500 | - | - |
| SDP010002299 | Disposal Permit (Lined Landfill) | | 1000 | - | - |
| SDP010002171 | Disposal Permit (Monocell) | Ti Tree Bioenergy facility,<br>55 Champions Way, Willowbank, QLD<br>(Lot 3 on SP167885 & Lot 8 on RP24574) | 150 | - | - |
| 230021CSE | Waste Levy Exemption | Stapylton Resource Recovery Facility and Ti Tree Bioenergy facility | - | 910 | Authorisation applied to Disposal Permits SDP010002171 and SDP010002201. |

**Table 6-5 Quantities of Material Disposed by EPS under Disposal Permits**

| Disposal Permit Number | Quantity Disposed (tonnes) | Quantity Disposed ($m^3$) (Note 1) | Materials Disposed Under Authorisation |
|---|---|---|---|
| SDP010002201 | 704.7 | 470 | |
| SDP010002299 | 516.1 | 374 | |
| SDP010002171 | 178.64 | 119 | Contaminated soil requiring disposal to monocell as defined in the RAP (refer to Section 5 and Appendix L.3) |

Note 1: Estimated 'bulked' volume of material disposed provided by EPS. EPS assumed an ex-situ bulk density of 1.5 t/$m^3$ as an estimate to determining material volumes based on the typical material type and filling the 12 $m^3$ skips to ~10 $m^3$ full.

A total of 883.34 tonnes of material under SDP010002171 and SDP010002201 were disposed under Waste Levy Exemption 230021CSE. The remainder of materials disposed were considered exempt from the waste levy based on the potential for friable asbestos[49].

[49] Separate to the DESI approved waste levy exemption, it was determined by the BMI Group based on information provided by Tetra Tech Coffey that the disposal of materials was exempt from the Queensland waste levy based on the potential for friable asbestos in the materials excavated.

## 6.8 IMPORTED MATERIALS

Imported materials comprised a 26.5 mm crushed rock and 75 mm rock aggregate material sourced from the Boral quarry at Petrie. Based on the records provided by EPS (refer to Appendix H.3) approximately 225 tonnes crushed rock material was imported or approximately 125 $m^3$ (assuming a bulk density of 1.8 tonnes/$m^3$) and 30 tonnes of 75 mm aggregate was imported. Imported materials were used in the shoring of boundary walls and in the driveway access point[50]. The quarried material at the Petrie Quarry is greenstone. The imported material observed on the Site was consistent with this description.

**Plate 5: Imported materials used in the shoring of boundary walls**

The quarry is comprised of three properties which are shown in Appendix H.3 and summarised Table 6-6. A search of the EMR/CLR was completed for these properties as summarised in the following table, and search results provided in Appendix H.3.

**Table 6-6 Boral Quarry Petrie EMR/CLR Search**

| Lot/Plan | EMR Search Result |
|---|---|
| 2 RP208504 | Property on the EMR for PETROLEUM PRODUCT OR OIL STORAGE. Property is not the CLR. EMR ID 70903 |
| 1 CP846007 | Property is not on the EMR/CLR |
| 29 S311167 | Property is not on the EMR/CLR |

Tetra Tech Coffey contacted the Boral Quarry Manager[51] at Petrie who advised that the listing was associated with former fuel tanks in a workshop area which have since been removed from the Site, and not associated with the quarried material which is from natural materials.

Samples of imported materials (crushed rock) were collected and analysed, and the results presented in Section 6.9.5. Imported materials were compared to the Remediation Criteria (refer to Section 5.4). All samples reported concentrations below the Remediation Criteria.

[50] Note there was not a requirement to re-instate (backfill) the Site to pre-remediation ground levels
[51] David Hartzer, Quarry Manager (personal communication, 19/2/24)

Section 3.6 of Schedule B1 of the NEPM requires consideration to aesthetic requirements which relate to non-hazardous foreign materials of anthropogenic origin which can be present in fill materials (e.g. fragments of concrete, metal, brick, ceramics, glass, ash, etc). Materials of anthropogenic origin were not observed in the imported materials.

## 6.9 VALIDATION SAMPLING

### 6.9.1 Overview

Validation sampling was undertaken in accordance with the RAP. Validation samples were collected at an approximate 5 m grid spacing over the Site including:

- Site boundary excavation walls
- excavation floors
- service trenches
- imported material.

Prior to the collection of validation samples from excavation floors and service trenches, the excavated surface levels were inspected by the LAA to confirm that no visible ACM were present. The excavated surface levels and then inspected by the SQP and/or an experienced Tetra Tech Coffey Environmental Scientist to confirm that natural materials were present. This was undertaken prior to sampling by an experienced Tetra Tech Coffey environmental scientist under the supervision of the SQP.

Natural soil materials observed on the Site were comprised of relatively consistent in appearance, medium to high plasticity, brown to brown/orange CLAY.

For Site boundary excavation walls, representative samples were collected from each strata encountered within the wall which included various combinations of: topsoil, ash fill and other fill materials, and then the underlying natural ground. For the Site boundary excavation walls along the eastern, western and southern boundaries of the Site a sample of the natural ground from the floor of the excavation adjacent to the wall (within 0.5 m of the wall) was collected prior to the shoring of the wall with imported material.

For trenches, a set of samples were collected every 5 linear m along the trench. Samples were collected from the natural ground in the trench and included a sample from the base of the trench, and each side wall of the trench at the approximate mid-point of the excavation.

Material logs for the validation samples are provided in Appendix B.

Representative photographs of validation samples collected are provided in Appendix D.2.

Validation samples (excluding imported materials) were analysed for the contaminants of concern in the RAP which included:

- 8-metals arsenic, cadmium, chromium, copper, lead, nickel, zinc, mercury
- hexavalent chromium (CrVI)[52]
- OCPs
- asbestos.

Representative samples of ash fill and fill materials in boundary walls were also analysed for PAHs.

Imported materials were analysed for the potential contaminants of concern in the RAP including:

- 8-metals arsenic, cadmium, chromium, copper, lead, nickel, zinc, mercury

[52] Representative samples of natural materials were analysed for hexavalent chromium where concentrations of total chromium exceeded the default Tier 1 HIL-A guidelines in the NEPM.

- hexavalent chromium (CrVI)[39]
- TRH/BTEX
- PAH
- OCPs
- OPPs
- asbestos.

Samples collected were submitted to NATA accredited laboratories including Eurofins (primary samples) and ALS (inter-laboratory duplicate samples) with the exception of samples collected on the 14 December 2023 for asbestos analysis. These samples were submitted to the NATA accredited laboratory HazSure Laboratories for analysis.

Laboratory reports for validation samples and imported materials are provided in Appendix E.

Table 6-8 on the following page provides a summary of the validation samples collected. Table 6-7 provides a summary of the sampling suffixes used in the naming of samples.

Validation sample results are discussed in Section 6.9.2, and an assessment of the quality assurance / quality control data in Section 6.10. In summary, TTC consider the data collated to support the validation assessment is reasonably accurate, comparable, precise, complete and representative in which to draw conclusions.

**Table 6-7 Validation Sampling ID Suffix**

| Validation Samples Type | Suffix used in Sample ID |
|---|---|
| Topsoil (walls) | _TS |
| Ash Fill (walls) | _Ash |
| Fill (walls) | _Fill |
| Natural Ground (Excavation Floor) | _F<br>_B |
| Natural Ground (walls) | _NW<br>_W |

## Note on Sample Depths

Validation samples collected from the finished surface of excavated areas (excavation floors and the bottom of trenches) were collected from materials at approximately 0-0.1 m depth.

Validation samples from boundary walls were collected from targeted lithologies rather than pre-determined depth intervals. Depth of the final validation sample locations are included in Appendix B and Appendix C.

**Table 6-8 Summary of Validation Samples**

| Validation Sample Series | Location | Sample Date | Appendix A Figure Reference | Appendix C Data Table Reference | Status for use in site validation | Comment |
|---|---|---|---|---|---|---|
| HS01 to HS12 | Southern Boundary (Headfort Street) | 12/9/23<br>18/9/23 | Figure 8 | C.1.1<br>C.1.2 | Final | - |
| HS10A and HS10B | South-Western Boundary | 18/9/23 | Figure 8 | C.1.1<br>C.1.2 | Final | - |
| HSA01 to HSA04 | Eastern Boundary | 20/9/23 | Figure 8 | C.1.1<br>C.1.2 | Final | - |
| HSB01 to HSB08 | Western Boundary (Newdegate Street) | 16/10/23<br>18/10/23<br>26/10/23 | Figure 8 | C.1.1<br>C.1.2 | Final | HSB01 to HSB08 were located within the BCC road reserve and therefore not within the boundary of the Site. The samples were collected 0.5 m west of the Site Boundary. |
| HSB01_230923 to HSB03_230923 | Western Boundary (Newdegate Street) | 26/9/3 | Figure 9 | C.4.1<br>C.4.2 | Redundant | HSB01_230923 to HSB01_230923 are redundant western boundary locations and are superseded by HSB01 to HSB08 sample series collected on 16/10/23, 18/10/23 and 26/10/23. EPS made a decision to excavate beyond the western boundary of the Site once it had been determined that these samples had been collected from materials located within the Site boundary. Re-sampling along the western boundary was undertaken once boundary excavations had been completed. Results from these samples are not discussed further in this report. |
| HSB18 to HSB27 | Northern Boundary | 14/12/23 | Figure 8 | C.1.1<br>C.1.2 | Final | - |
| HSB09 to HSB17 | Northern Boundary | 18/10/23 | Figure 9 | C.4.1<br>C.4.2 | Redundant | HSB09 to HSB10 are redundant northern boundary locations and are superseded by HSB18 to HSB27. Based on the detection of asbestos in the majority of these samples a decision was made to undertake further excavation along the northern boundary (refer to Section 6.5). Results from these samples are not discussed further in this report. |
| A1 to A10<br>B1 to B10 …<br>H1 to H10 | Excavation Floor | 26/10/23 | Figure 8 | C.1.1<br>C.1.2 | Final | - |

| Validation Sample Series | Location | Sample Date | Appendix A Figure Reference | Appendix C Data Table Reference | Status for use in site validation | Comment |
|---|---|---|---|---|---|---|
| DW-B1 to DW-B4 | Site access point (drive way) Excavation Floor | 18/10/23 | Figure 7 | C.1.1<br>C.1.2 | Final | - |
| TR01 to TR06<br>T01 to T26 | Service Trenches | 21/9/23<br>16/10/23<br>18/10/23<br>26/10/23 | Figure 7 | C.1.1<br>C.1.2 | Final | At each trench sampling site in the trench samples were collected from bottom of the trench (denoted by a suffix '_B' in the Sample ID) and the side walls of the trench (denoted by a suffix '_W' in the Sample ID). Sample sites in Figure 7 represent where these samples were collected. For example at sample site T04 in Figure 7 this location represents where the following samples were collected: T07_B, T07_W1, and T07_W2. |
| V01 to V14 | Area used to place imported materials on Site | 7/9/23 | Figure 6 | C.2.1<br>C.2.2 | Redundant | Natural ground from the excavation floor were sampled prior to the importation of materials. These results are discussed in Section 6.9.3, and the results are superseded by the excavation floor samples completed on the 26/10/23. |
| CF01 to CF06<br>IF01 to IF06 | Imported Materials | 12/9/23<br>26/10/26 | Figure 10 | C.3.1<br>C.3.2 | Final | Imported materials were sampled from a stockpile on the 12/9/23 from the area where imported materials were placed (see Figure 6, Appendix A). Imported materials were also sampled from the shoring materials and the sample locations are shown in Figure 10, Appendix A. |

### 6.9.2 Ground Conditions at Validation Sampling Locations

The following table provides a summary of the ground conditions observed at the validation sampling locations. Material logs for the validation samples are provided in Appendix B.

**Table 6-9 Summary of Ground Conditions at Validation Sample Locations**

| Location | Comment |
|---|---|
| **Southern Boundary (Headfort Street)** | The profile for material along the southern side (Headfort Street boundary) wall of the excavation comprised concrete hardstand, underlain by a concrete aggregate layer, underlain by a layer of ash fill material, and underlain by natural soils. Samples were collected at the midpoint of each layer. The profile of the face of the southern wall had a typical layer thicknesses 0.7 to 0.8 m of concrete wall with base, 0.1 to 0.3 m of ash, and 0.2 to 0.5 m of natural ground becoming the site floor. |
| **Eastern Boundary** | The profile for material along the eastern boundary wall, bordering the adjacent property and driveway. The excavation wall consists of a silty topsoil mixed with grave fill, underlain course gravel fill layer, and underlain by natural soils. Samples were collected from the midpoint of each layer. The profile of the face of the eastern wall had a typical layer thicknesses 0.1 to 0.2 of topsoil (fill), 0.3 to 0.4 m of fill, and 0.2 to 0.3 m of natural ground. |
| **Western Boundary (Newdegate Street)** | The profile for material along the western side (Newdegate Street boundary) wall of the excavation consists of topsoil (fill), underlain by a layer of ash fill material, and underlain by natural soils. Samples were collected from the midpoint of each layer. The profile of the face of the western wall had a typical layer thicknesses 0.2 to 0.4 m of topsoil mixed in with fill, 0.1 to 0.3 m of ash, and 0.2 to 0.4 m of natural ground. |
| **Northern Boundary** | Materials along the northern boundary were observed to be natural soils comprising silty clay. |
| **Excavation Floor** | The site floor validation sample profile consisted of the site floor excavated down into natural clays to levels depth between 0.15 m bgs to 0.3 m bgs. |
| **Service Trenches** | The samples collected from the excavated trenches consisted of wall and floor samples intersecting every 5 m along the trenches, at midpoints of the walls and floor. The profile was natural clay with trace weathered rock. |

### 6.9.3 Final Validation Sample Results

Final sample validation results for the contaminants of concern are presented in Appendix C.1.1 (chemical analytes) and Appendix C.1.2 (asbestos). Sample locations are shown in Figure 8, Appendix A (boundary and excavation floor samples) and Figure 7, Appendix A (site access driveway and trenches). The final validation sample results are summarised in the following table.

**Table 6-10 Chemical Final Validation Sample Results**

| Analyte (mg/kg unless shown) | No. Samples / No. Detects | Minimum Value | Maximum Value | Remediation Criteria | No. of Samples Exceeding Remediation Criteria |
|---|---|---|---|---|---|
| Aldrin + Dieldrin | 308 / 28 | <0.05 | 4.6 | 6 | Nil |
| Chlordane | 308 / 38 | <0.05 | 12 | 50 | Nil |
| Endosulfan I | 308 / 2 | <0.05 | 0.26 | 270 | Nil |
| Endrin | 308 / 4 | <0.05 | 0.09 | 10 | Nil |
| Heptachlor | 308 / 3 | <0.05 | 0.07 | 6 | Nil |
| DDT+DDE+DDD | 308 / 4 | <0.05 | 0.07 | 240 | Nil |
| Arsenic | 312 / 298 | <2 | 350 | 160 (Note 1) | 4 |
| Cadmium | 308 / 0 | <0.4 | <1 | 20 | Nil |
| Chromium (hexavalent) | 15 / 0 | <1 | <1 | 100 | Nil |
| Chromium (Total) | 308 / 302 | <5 | 230 | 12000 (Note 2) | Nil |
| Copper | 308 / 306 | <5 | 180 | 6000 | Nil |
| Lead | 308 / 218 | <5 | 370 | 300 | 1 |
| Mercury | 311 / 13 | <0.1 | 5.7 | 40 | Nil |
| Nickel | 308 / 307 | <5 | 95 | 400 | Nil |
| Zinc | 308 / 308 | 10 | 610 | 7400 | Nil |
| PAHs (Sum of total) | 24 / 0 | <0.5 | <0.5 | 300 | Nil |

Note 1: modified criteria for arsenic, refer to Appendix J.1.
Note 2: modified criteria for Chromium (Total), refer to Section 5.4

#### 6.9.3.1 OCPs

All sample results reported concentrations of OCPs which were non-detect or below the remediation criteria.

#### 6.9.3.2 Metals

With the exception of arsenic and lead, all samples reported results for metals which were non-detect or below the remediation criteria. Further discussion regarding arsenic, lead and chromium detections are provided below.

##### Arsenic

Arsenic (As) exceeded the remediation criteria (see Note 1, Table 6-10) at two locations (HSA02_TS_230920: 350 mg/kg and HSA03_TS_230920: 170 mg/kg). These two sample locations were collected from 'topsoil materials' directly beneath a copper chromium arsenic (CCA) treated timber fence located on the eastern boundary of the Site (refer to Section 6.5), which is considered to be the source of arsenic. Leachability testing using Australian Standard Leaching Procedure (ASLP) using pH neutral water was undertaken on these topsoil samples to assess the mobility of arsenic. The leachability results (refer to Appendix C.5) confirms that the arsenic is leachable under the ASLP test. In the fill materials underlying the topsoil, substantially lower concentrations of arsenic were reported (HSA02_FILL_230920: 18 mg/kg and HSA03_FILL_230920: 43 mg/kg) which provide lines of evidence to support that the arsenic in the topsoil has low leachability, and has not contaminated underlying materials.

An assessment of this exceedance is included in Appendix J.1. The assessment of the modified remediation criteria and statistical analysis concluded that the exceedance of arsenic in the samples does not preclude the Site as being assessed as suitable for any use noting:

- the maximum value reported is 175% of the modified criteria and is therefore less than 250% of the criteria as required in Schedule B1 of the NEPM.
- the standard deviation (88 mg/kg) is less than 50% of the modified criteria as required in Schedule B1 of the NEPM.
- the mean and UCL 95% are below the modified criteria for arsenic.

## Lead

Lead exceeded the remediation criteria in one sample (HSB04_F_231016[53]) with a concentration of 370 mg/kg. This sample was collected from fill material west of the western boundary of the Site within the BCC road reserve (and therefore not within the boundary of the Site). The result from this sample is not considered to be a risk to future users of the Site noting the material sampled is 0.5 m west of the Site Boundary.

## Chromium

Representative samples of natural materials with total chromium concentrations greater than 100 mg/kg were sampled for Chromium VI. The results are summarised in the following table and confirm that the form of Chromium in soil is Chromium III. This finding is consistent with the Supplementary Investigation. Therefore the modified remediation criteria for Chromium III was applied as discussed in Section 5.4.

**Table 6-11 Chromium Results (mg/kg)**

| Sample ID | Chromium (Total) | Chromium VI |
|---|---|---|
| B1 | 190 | <1 |
| C7 | 130 | <1 |
| D4 | 150 | <1 |
| D8 | 190 | <1 |
| E2 | 130 | <1 |
| E4 | 130 | <1 |
| F10 | 150 | <1 |
| G3 | 130 | <1 |
| G10 | 140 | <1 |
| QC114 (Dup of H9) | 160 | <1 |
| H10 | 180 | <1 |
| T18-B | 220 | <1 |
| T21-B | 220 | <1 |
| T22-B | 160 | <1 |
| T24-B | 170 | <1 |

[53] Validation samples HSB01 to HSB08 were collected in the Newdegate Street BCC Road reserve and 0.5 m west of the Site Boundary (refer to Section 6.9.1).

#### 6.9.3.3 Asbestos

As noted in Section 6.5 frequent occurrence of ACM was reported in fill materials, and a decision was made to excavate and remove all fill materials from the Site.

A site-specific risk assessment for asbestos and the validation of the Site was undertaken and is included in Appendix J.2. A summary of this assessment is provided as follows.

The assessment framework for asbestos in the NEPM is based on the Western Australian Department of Health (DoH) (2009) *Guidelines for the assessment, remediation and management of asbestos-contaminated sites in Western Australia* which were revised in 2021[54] (WA Guidelines).

Section 6.8 of the WA Guidelines states:

> *Validation will be necessary for remediation works. For all validation activities, no matter how simple or complex, the evaluation and reporting of a remediation methodology must be adequately recorded throughout the course of a project.*
>
> *Any validation sampling should be based on the recommended sampling methods in Chapter 5. Validation to verify completion of remedial activities should be determined as part of the RAP. For example, the validation of excavated asbestos-contamination where boundaries of the waste or fill can be readily distinguished can be based on removing material until natural soils are revealed, or another change in a condition indicative of non-impacted soil is evident. The decision parameters and confirmation of remediation must be recorded.*

As outlined in the WA Guidelines, the validation of ACM contamination where boundaries of the fill can be readily distinguished, can be based on removing material until natural soils are revealed.

The remediation of the Site involved the removal of the impacted domain (fill material) to natural materials. Visual confirmation of the undisturbed natural materials on the Site is therefore considered to be the primary line of evidence to support the validation of the Site, and the conclusion that the fill materials were removed from the Site.

In accordance with the RAP, 270 (500 ml) validation samples were collected from natural soil materials at the Site[55] over a 5 m x 5 m systematic sampling grid. Asbestos was not reported in 266 of the 270 validation samples collected, and was detected in three samples within the Site boundary[56].

The non-detection of asbestos in 266 of the 270 validation samples is considered to provide a secondary line of evidence to support the validation of the Site and that the impacted domain (fill material) was removed.

Asbestos was detected in three samples from a service trench which was observed to be excavated into natural materials (refer to Figure 7, Appendix A). These samples are summarised as follows:

- T02_B (shown as T02 in Figure 7) which reported an estimated concentration of asbestos fines (AF) (as chrysotile loose fibre bundles) of 0.0029% w/w asbestos which exceeded the NEPM Health Screening Level (HSL) Residential A criteria of 0.001%. This sample was collected from the base of the trench. Samples collected from the walls of the trench at this sampling location reported non-detects for asbestos (T02_W1 and T02_W2).
- T04_W1 (shown as T04 in Figure 7) which reported a concentration of AF (as chrysotile loose fibre bundles) of 0.0011% which is approximately equal to the NEPM HSL-A criteria of 0.001%. This sample was collected from the wall of the trench. Samples collected from the opposite wall/base of

[54] Western Australia Department of Health (2021), Guidelines for the Assessment, Remediation and Management of Asbestos Contaminated Sites in Western Australia.
[55] Samples were collected from a 5 x 5 m sampling grid which is double the density recommended in Section 4.1, Schedule B1 of the NEPM which recommends a 10 x 10 m sampling grid.
[56] Note asbestos was also detected in sample HS10_TS_230918. This sample was collected from topsoil material south west of the Site in the BCC road reserve, and not within the Site boundary. The form of asbestos detected as loose chrysotile fibres with a concentration below the NEPM HIL-A criteria.

the trench at this sampling location reported non-detects for asbestos at this sampling location (T04_W2 and T04_B).

- T05_B (shown as T05 in Figure 7) which reported a concentration of AF (as chrysotile loose fibre bundles) of 0.00026% which was below NEPM HSL-A criteria of 0.001%. Samples collected from the walls of the trench at this sampling location reported non-detects for asbestos (T05_W1 and T05_W2).

The impacted domain (fill material) has been removed from the Site which includes the excavated service trenches. Therefore, the source of the detected fibre bundles in the validation samples is not fill materials. The likely source of contamination is considered to cross-contamination from incidental fibre bundle(s) during excavation of the impacted domain.

No free fibre (trace / respirable) asbestos was reported in any of the 270 samples analysed.

Appendix two of the WA Guidelines state:

> *In the case of AF, a few low-level concentration detects may sometimes be construed as trivial, incidental or background, especially if contamination is not suggested by site history or the main contamination contributing to the source of fibre has been removed. The context and use of a conceptual site model that reflects the relevant exposure scenarios and the frequency and occurrence of other positive and negative results should be considered.*

The reported laboratory validation results should be considered in this context, that is the impacted domain (fill material) has been removed across the Site to natural soil.

Both the NEPM and WA Guidelines reference the adoption of a Tier 2 (site specific) assessment of risks should be undertaken where exceedances of Tier 1 screening levels (NEPM HSLs) are reported (or a conservative management approach adopted).

Based on the reported results exceeding the NEPM HSLs being limited to single exceedance (the result for T04_W1 should be considered as equal to 0.001%) and considering the remediation approach adopted (removal of impacted domain), in accordance with the NEPM and WA guidelines, a detailed site specific risk assessment is not considered to be required to support that the risks posed to future site users are acceptably low. Notwithstanding this, site specific criteria were developed for the Site (refer to Appendix J.2) which resulted in a modification of the NEPM HSL-A by a factor of 10 to 0.01% w/w asbestos. The AF concentrations reported in soil at T02_B, T04_W1 and T05_B were less than the modified HSL-A criteria.

#### 6.9.3.4 Fill Materials Containing Anthropogenic Materials

Section 3.6 of Schedule B1 of the NEPM requires consideration to aesthetic requirements which relate to non-hazardous foreign materials of anthropogenic origin which can be present in fill materials (e.g. fragments of concrete, metal, brick, ceramics, glass, ash, etc).

Fill containing anthropogenic materials which pose physical hazards (sharp and angular) were observed in previous investigations of the Site and were considered to be unsuitable for use in an unrestricted landuse and should be removed from the Site where there is a likelihood that future users of the Site may come into contact with these materials. All fill materials were removed from the Site as part of the remediation works, and accordingly these anthropogenic materials have been removed from the Site.

#### 6.9.3.5 Summary

In summary based on the final validation results, the remedial objectives and remediation criteria are considered to have been achieved, and the Site is considered to be suitable for any use.

### 6.9.4 Area Used to Stockpile Imported Materials

Prior to the importation of Imported Materials, the area used to stockpile imported materials was stripped to natural ground and sampled over a 5 m grid in accordance with the RAP. Sample results are presented in Appendix C.2.1 (chemical analytes) and Appendix C.2.2 (asbestos).

Sample locations are shown in Figure 6, Appendix A.

In summary all samples had concentrations of metals and OCPs below the remediation criteria, and non-detects for asbestos. Therefore there is negligible risk in regard to the potential for cross-contamination associated with the mixing of imported materials and with underlying soil materials.

### 6.9.5 Imported Materials

Imported Materials were sampled in general accordance with the requirement of the RAP. The estimated volume of imported material is 125 $m^3$ (refer to Section 6.8) and 12 samples were collected which is an approximate sampling density of 1 per 10 $m^3$.

Sample results are presented in Appendix C.3.1 (chemical analytes) and Appendix C.3.2 (asbestos) and were compared to the Remediation Criteria.

Sample locations are shown in Figure 10, Appendix A.

All samples had:

- non-detects for OCPs/OPPs, TRH/BTEX, PAH and PFAS
- low concentrations of metals (arsenic, chromium, copper, nickel and zinc) which were below the remediation criteria, and non-detects for cadmium, lead and mercury.
- non-detectable concentrations of hexavalent chromium
- concentrations below the remediation criteria.

Section 3.6 of Schedule B1 of the NEPM requires consideration to aesthetic requirements which relate to non-hazardous foreign materials of anthropogenic origin which can be present in fill materials (e.g. fragments of concrete, metal, brick, ceramics, glass, ash, etc). Anthropogenic materials were not observed in the imported material (refer to Section 6.8).

In summary the material imported material meets the requirements of the RAP and can be considered to be suitable for its intended use.

## 6.10 QUALITY ASSURANCE AND QUALITY CONTROL

An assessment of quality assurance and quality control is included in Appendix F and the DQOs/DQIs in Appendix G. In summary validation data collected by TTC was undertaken by an experienced environmental scientist in accordance with TTC standard operating procedures, the RAP and under the supervision of the SQP. Samples were collected in laboratory provided containers, stored in chilled insulated containers, and submitted to a NATA accredited laboratory (ALS) under chain of custody documentation. Each sample was collected with a new set of nitrile gloves. Samples were received by the laboratory in good condition and analysis was completed within the required holding times for the contaminants of concern. Data collected by TTC is considered to be directly useable for the validation of the Site.

In summary, TTC consider the data collated to support the validation assessment is reasonably accurate, comparable, precise, complete and representative in which to draw conclusions.

# 7. CONCEPTUAL SITE MODEL POST-REMEDIATION

The assessment of the validation data in this report has confirmed that the remedial objective has been achieved, and accordingly the source of contamination requiring remediation has been removed from the Site and remediation objectives have been met.

Consequently, further consideration to transportation pathways, exposure pathways and receptors is not considered to be required.

## 7.1 TABULATED CSM

The following table provide a CSM for source-pathway-receptor linkages for the Site post-remediation and considers the potential for the Site to be used for residential purposes under the NEPM (HIL-A). The table includes a summary of whether complete source-pathway-receptor linkages (exposure pathways) could occur. In regard to this summary, note:

- 'Likely' refers to an exposure pathway which could occur and if they occur there is potential for an unacceptable risk to the receptor (i.e. a complete exposure pathway)
- 'Potential' refers to an exposure pathway which could occur however further assessment would be required to establish whether an unacceptable risk to receptor could occur.
- 'Unlikely' refers to an exposure pathway which are considered unlikely to occur and therefore it is unlikely that there would be an unacceptable risk to receptor (i.e. an incomplete exposure pathway).
- 'Not applicable' refers to an exposure pathway which is not considered to be plausible and therefore incomplete.

**Table 7.1:** Post Remediation Conceptual Site Model (Source-Pathway-Receptors)

| Contamination Source | Contaminants of Concern | Media | Plausible Exposure Pathways | Receptors | Complete exposure pathway (without remediation) |
|---|---|---|---|---|---|
| Asbestos containing materials (ACM) in Fill Materials | Asbestos | Fill/topsoil materials | Inhalation of fibres | Construction workers | Not applicable (Note 1) |
| | | | | General public including persons who could be subject to contaminated media generated during redevelopment and post-construction | Not applicable (Note 1) |
| | | | | General public accessing the Site in the future | Not applicable (Note 1) |
| | | | | Surrounding land users/neighbouring properties | Not applicable (Note 1) |
| | | | | Terrestrial ecological receptors at the Site | Not applicable (Note 1) |
| Anthropogenic Materials in fill material | Anthropogenic Materials which pose a physical hazard | Fill | Dermal contact | General public including persons who could be subject to contaminated media generated during redevelopment and post-construction | Not applicable (Note 1) |
| Historical termiticides applied to Site buildings as termite barriers | OCPs | OCPs in soil media | Inhalation of contaminated dust | Construction workers | Not applicable (Note 2) |
| | | | Dermal contact with contaminated soil | General public including persons who could be subject to contaminated media generated during redevelopment and post-construction | Not applicable (Note 2) |
| | | | Ingestion of contaminated soil | General public accessing the Site in the future | Not applicable (Note 2) |
| | | | Biological uptake mechanisms | Surrounding land users/neighbouring properties | Not applicable (Note 2) |
| | | | | Terrestrial ecological receptors at the Site | Not applicable (Note 2) |
| | | Surface water with OCPs | Ingestion | Construction workers | Not applicable (Note 2) |
| | | | Dermal contact | General public including persons who could be subject to contaminated media generated during redevelopment and post-construction | Not applicable (Note 2) |
| | | | | General public accessing the Site in the future | Not applicable (Note 2) |
| | | | | Surrounding land users/neighbouring properties | Not applicable (Note 2) |
| | | | | Terrestrial flora and fauna | Not applicable (Note 2) |
| | | | Biological uptake mechanisms | Aquatic flora and fauna in Norman Creek (drain) | Not applicable (Note 2) |

| Contamination Source | Contaminants of Concern | Media | Plausible Exposure Pathways | Receptors | Complete exposure pathway (without remediation) |
|---|---|---|---|---|---|
| | | Groundwater with OCPS | Ingestion | Construction workers | Not applicable (Note 2) |
| | | | Dermal contact | General public including persons who could be subject to contaminated media generated during redevelopment and post-construction | Not applicable (Note 2) |
| | | | | General public accessing the Site in the future | Not applicable (Note 2) |
| | | | | Surrounding land users/neighbouring properties | Not applicable (Note 2) |
| | | | | Terrestrial flora and fauna within the Property | Not applicable (Note 2) |
| | | | | Aquatic flora and fauna in Norman Creek (drain) | Not applicable (Note 2) |
| | | Terrestrial biota within the Site | Consumption, bioaccumulation, biomagnification | Construction workers | Not applicable (Note 2) |
| | | | | General public accessing the Site if the future | Not applicable (Note 2) |
| | | | | Terrestrial flora and fauna within the Property | Not applicable (Note 2) |
| | | Aquatic biota in Norman Creek (drain) | Consumption, bioaccumulation, biomagnification | Construction workers | Not applicable (Note 2) |
| | | | | General public accessing Norman Creek (drain) | Not applicable (Note 2) |
| | | | | Aquatic flora and fauna in Norman Creek (drain) | Not applicable (Note 2) |

Note 1: The remediation of the Site (refer to Section 6) involved the excavation and off-site disposal of all fill materials from the Site which contained ACM and other anthropogenic materials.
Note 2: The remediation of the Site (refer to Section 6) involved the excavation and off-site disposal of all fill/soil materials with OCPs which required remediation.

# 8. CONCLUSIONS

The Department of Veteran Affairs (DVA) is planning the redevelopment of 114 Newdegate Street, Greenslopes (Lot 123-125 RP46047) ("the Site").

The Site is listed on the EMR for Hazardous Contaminants as a result of organochlorine pesticides (OCPs) being previously detected in soil. The Site is not subject to a Site Management Plan (SMP) and the EMR listing does not include a Site Suitability Statement.

DVA has a requirement to remediate and remove the Site from the EMR.

Remediation of the Site was undertaken between August 2023 and December 2023. Remediation involved the excavation and disposal of approximately 1,400 tonnes of soil material to an average excavation depth of approximately 0.45 m over the Site.

Soil materials were disposed to licenced landfills under approved Disposal Permits.

The assessment of validation data undertaken in this Validation Report has confirmed that the remedial objective has been achieved, and the Site can be considered to be suitable for its unrestricted use and removed from the EMR.

This Validation Report is to be read in-conjunction with limitations in Section 9.

# 9. SITE SUITABILITY STATEMENT

The following site suitability statement has been adapted from Section 3.3.2 of the Queensland Government (2023) *Queensland Auditor Handbook for Contaminated Land – Module 6: Content requirements for contaminated land investigation documents, certifications and audit reports*.

**Outcome 1—The land is not contaminated land and is suitable for any use**

'The land described as Lot 123 RP46047,124 RP46047, and 125 RP46047 is not contaminated land and is suitable for unrestricted land use, including Land Use A (residential with garden/accessible soil; childcare centres, preschools, and primary schools with access to soil) and sensitive land uses listed in Schedule 24 of the Planning Regulation 2017. It has been demonstrated that:

1. the land is not being used for a notifiable activity, and
2. the land is not affected by a hazardous contaminant, and
3. the land is not prescribed contaminated land, and
4. an appropriate assessment of site contamination has been conducted using current best practice and in accordance with the current state and Commonwealth legislation, policies and guidelines, Australian Standards, and the National Environment Protection (Assessment of Site Contamination) Measure 1999.

The completed DESI Site Suitability Statement Template is included as Appendix M.

# 10. IMPORTANT INFORMATION ABOUT YOUR TETRA TECH COFFEY REPORT

# 11. REFERENCES


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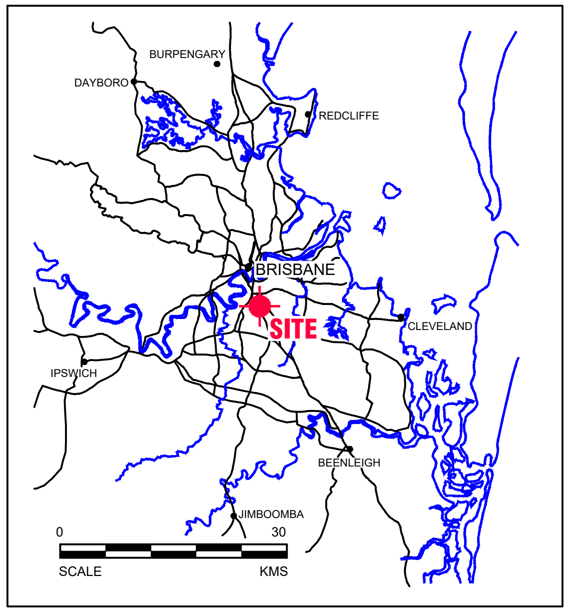
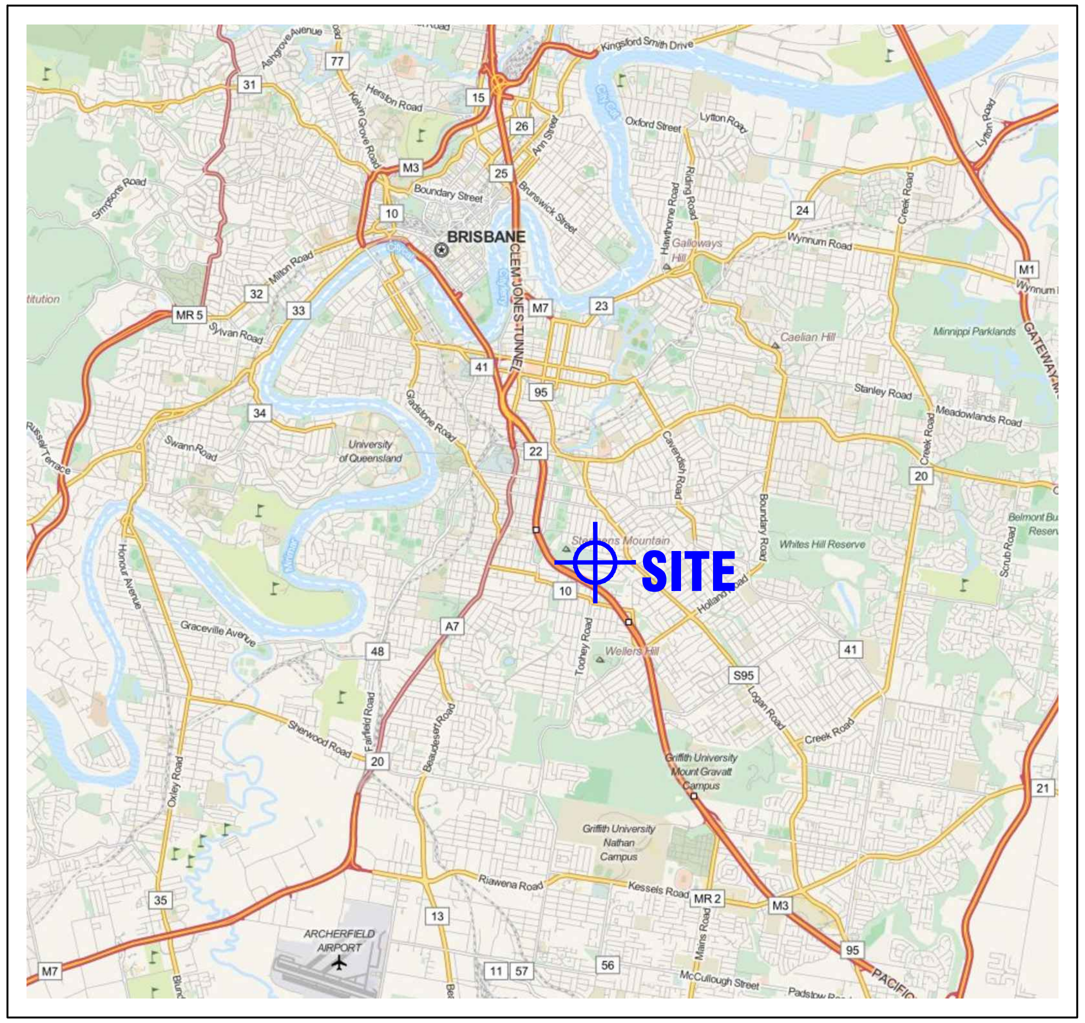
# APPENDIX A: FIGURES




GENERAL AREA MAP




REGIONAL AREA MAP

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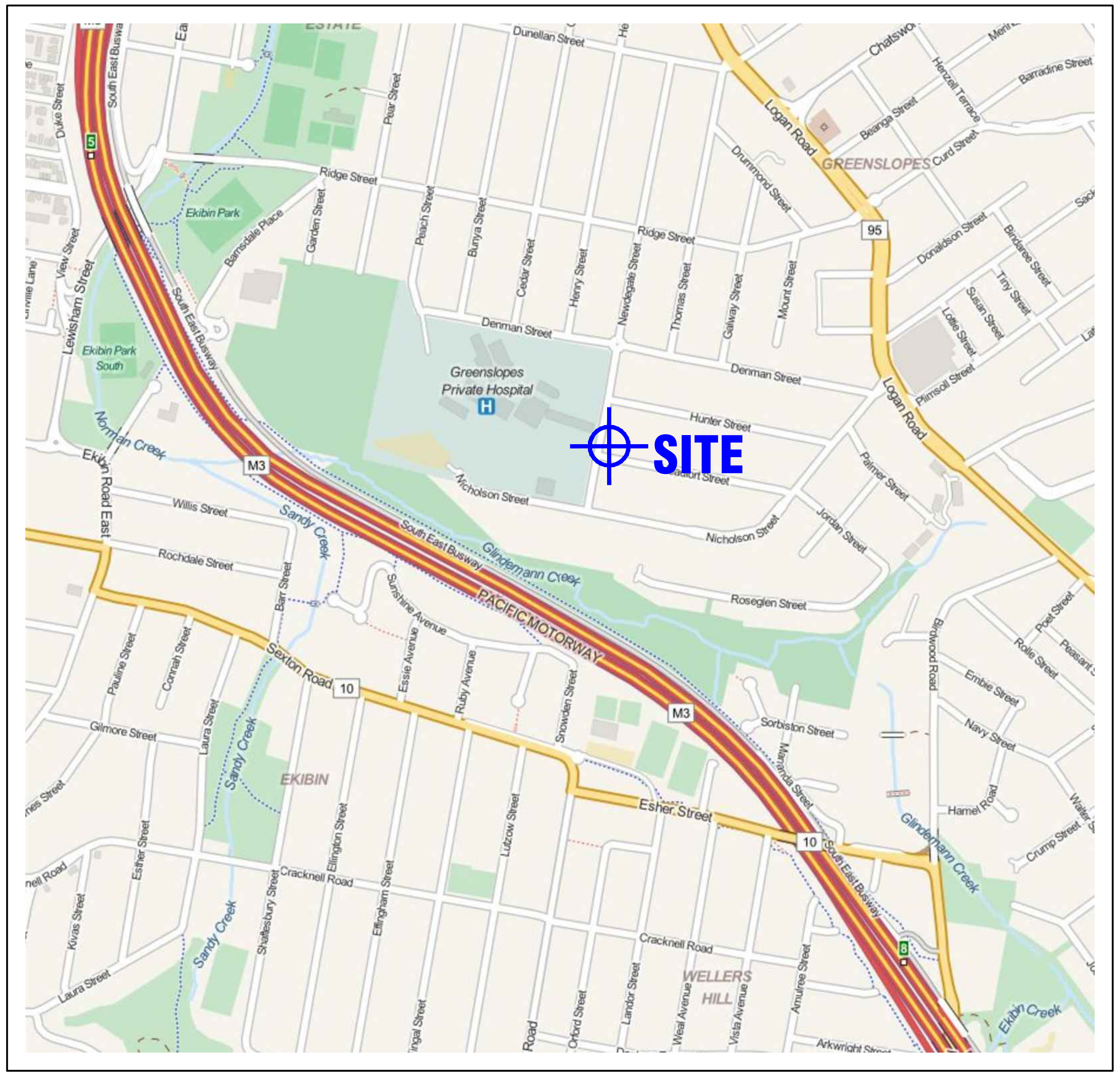


LOCAL AREA MAP

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TETRA TECH COFFEY

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| project: | DVA GREENSLOPES<br>51/53/55 HEADFORT STREET, GREENSLOPES, QLD |
| title: | SITE LOCATION PLAN |
| project no: 754-BNEEN282781 | figure no: FIGURE 1 / rev: A |

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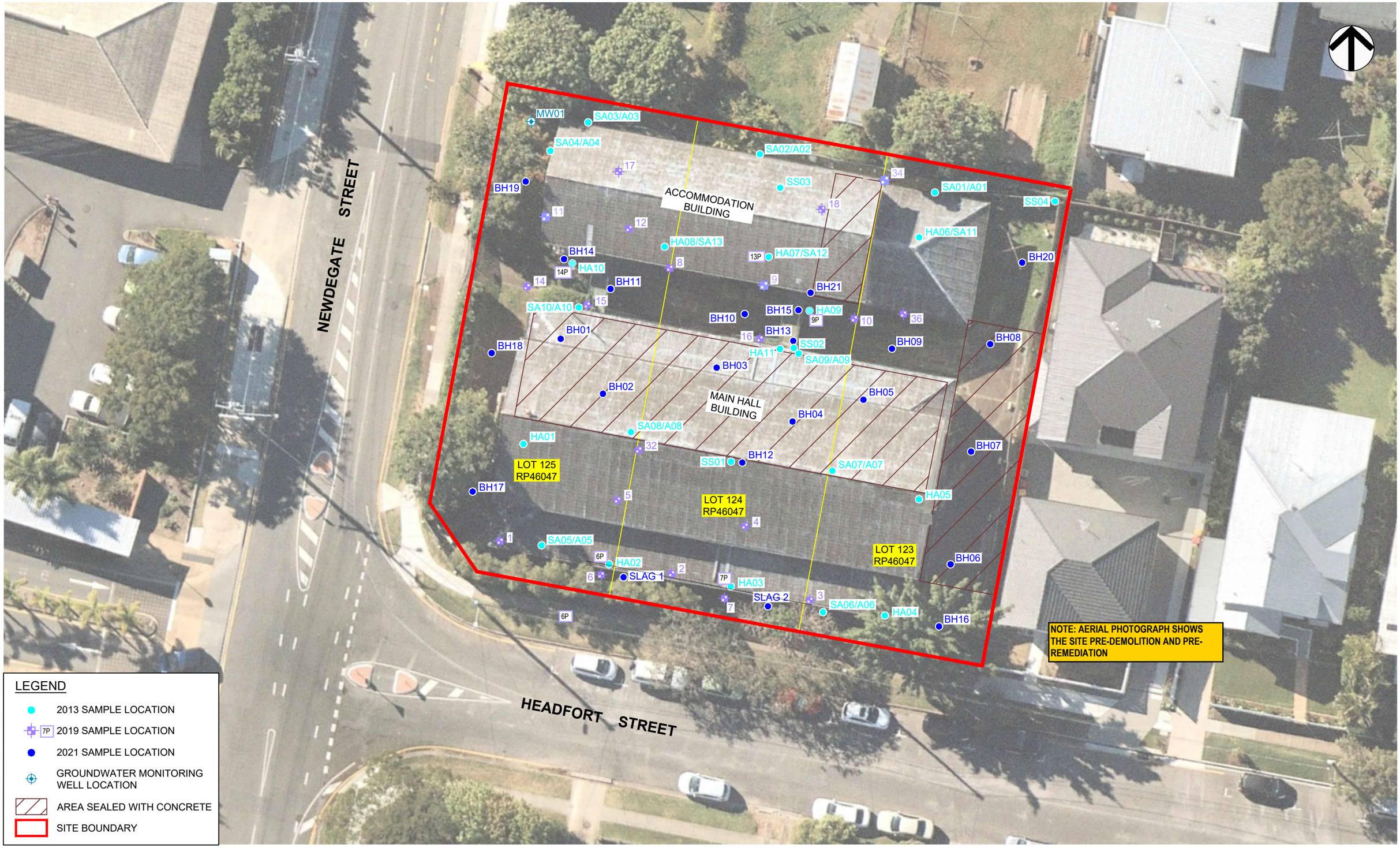


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TETRA TECH COFFEY

client: DEPARTMENT OF VETERAN AFFAIRS

project: DVA GREENSLOPES
51/53/55 HEADFORT STREET, GREENSLOPES, QLD

title: SAMPLE LOCATION PLAN

project no: 754-BNEEN282781 | figure no: FIGURE 2 | rev: A

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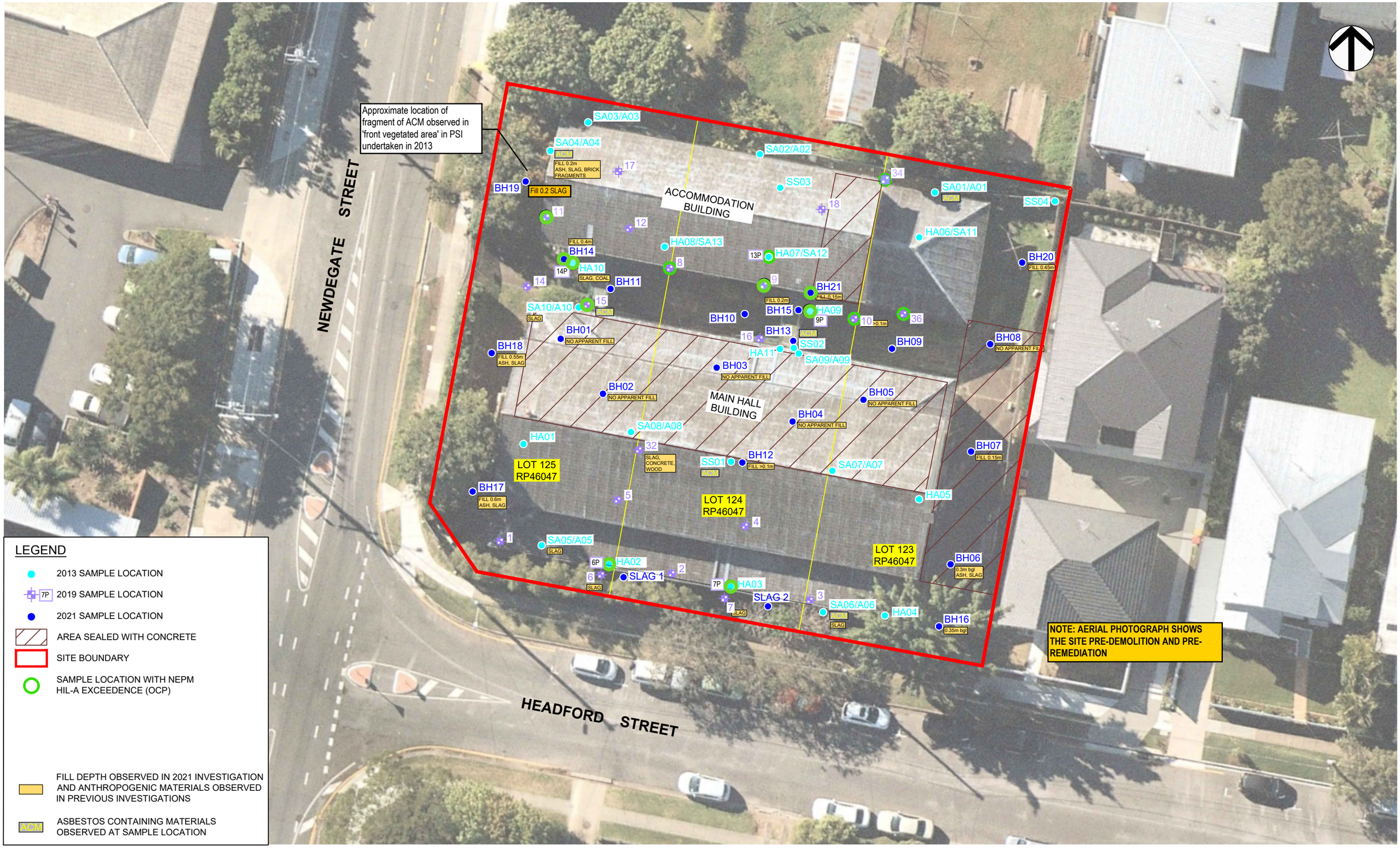


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TETRA TECH COFFEY

client: DEPARTMENT OF VETERAN AFFAIRS

project: DVA GREENSLOPES
51/53/55 HEADFORT STREET, GREENSLOPES, QLD

title: SUMMARY OF HUMAN HEALTH EXCEEDANCES AND FILL DEPTH

project no: 754-BNEEN282781 | figure no: FIGURE 3 | rev: A

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TETRA TECH COFFEY

client: DEPARTMENT OF VETERAN AFFAIRS

project: DVA GREENSLOPES
51/53/55 HEADFORT STREET, GREENSLOPES, QLD

title: RAP EXCAVATION PLAN 0-0.25 M BGS

project no: 754-BNEEN282781 | figure no: FIGURE 4A | rev: A

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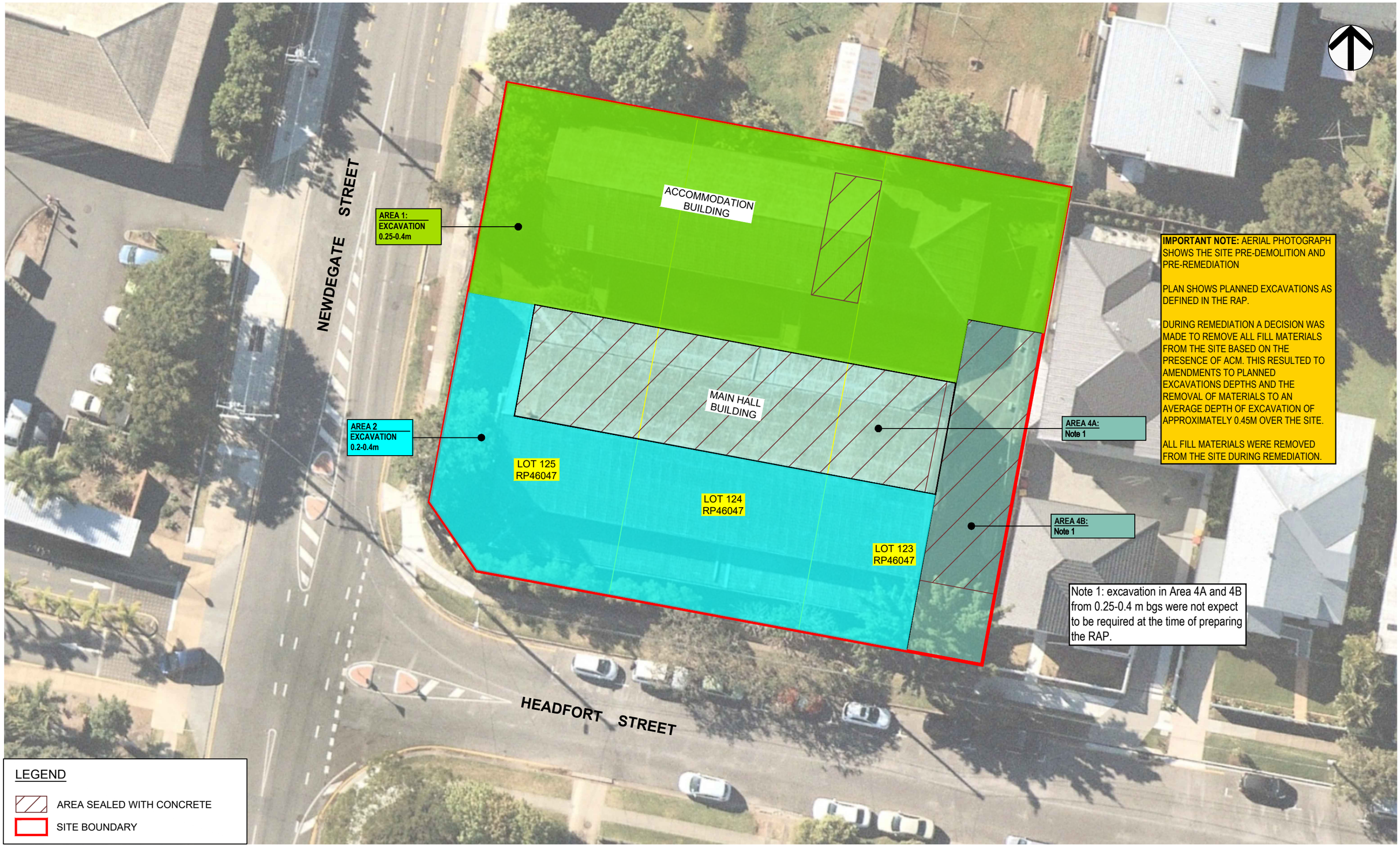


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TETRA TECH COFFEY

client: DEPARTMENT OF VETERAN AFFAIRS

project: DVA GREENSLOPES
51/53/55 HEADFORT STREET, GREENSLOPES, QLD

title: RAP EXCAVATION PLAN 0.25-0.4 M BGS

project no: 754-BNEEN282781 | figure no: FIGURE 4B | rev: A

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**LEGEND**

- Area 1C boundary Delineation Locations
- Area 1C
- Surveyed Property Boundary

SOURCE
Site boundary and investigation locations from Tetra Tech Coffey.
Aerial imagery from Nearmap (capture date: 31/10/2023)

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SCALE **1:200**
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PROJECTION: **GDA 1994 MGA Zone 56**

DEPARTMENT OF VETERAN AFFAIRS

DVA GREENSLOPES
51-55 HEADFORT STREET, GREENSLOPES, QLD

# FIGURE 5

## Area 1C Delineation Locations

TETRA TECH COFFEY

DATE: **16.11.23** PROJECT: **754-BNEEN282781** FILE: **282781_VAL_F005_GIS**

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DOC REFERENCE: \\TT.LOCAL\COFS772\GIS\282781_BNEEN_DVA_GREENSLOPES\1_DVAGREENSLOPES\GIS\APRX\282781_VAL_FIGS_AAPRX | LAYOUT:282781_VAL_F005_GIS_1

## LEGEND

- Floor Sampling Pre Import of Material
- Surveyed Property Boundary

SOURCE
Site boundary and investigation locations from Tetra Tech Coffey.
Aerial imagery from Nearmap (capture date: 31/10/2023)

N

0 2 4 m

SCALE **1:200**
PAGE SIZE: **A3**
PROJECTION: **GDA 1994 MGA Zone 56**

DEPARTMENT OF VETERAN AFFAIRS

DVA GREENSLOPES
51-55 HEADFORT STREET, GREENSLOPES, QLD

# FIGURE 6

## Floor Validation Sampling Prior to Importing Fill

TETRA TECH COFFEY

DATE: **16.11.23** PROJECT: **754-BNEEN282781** FILE: **282781_VAL_F006_GIS**

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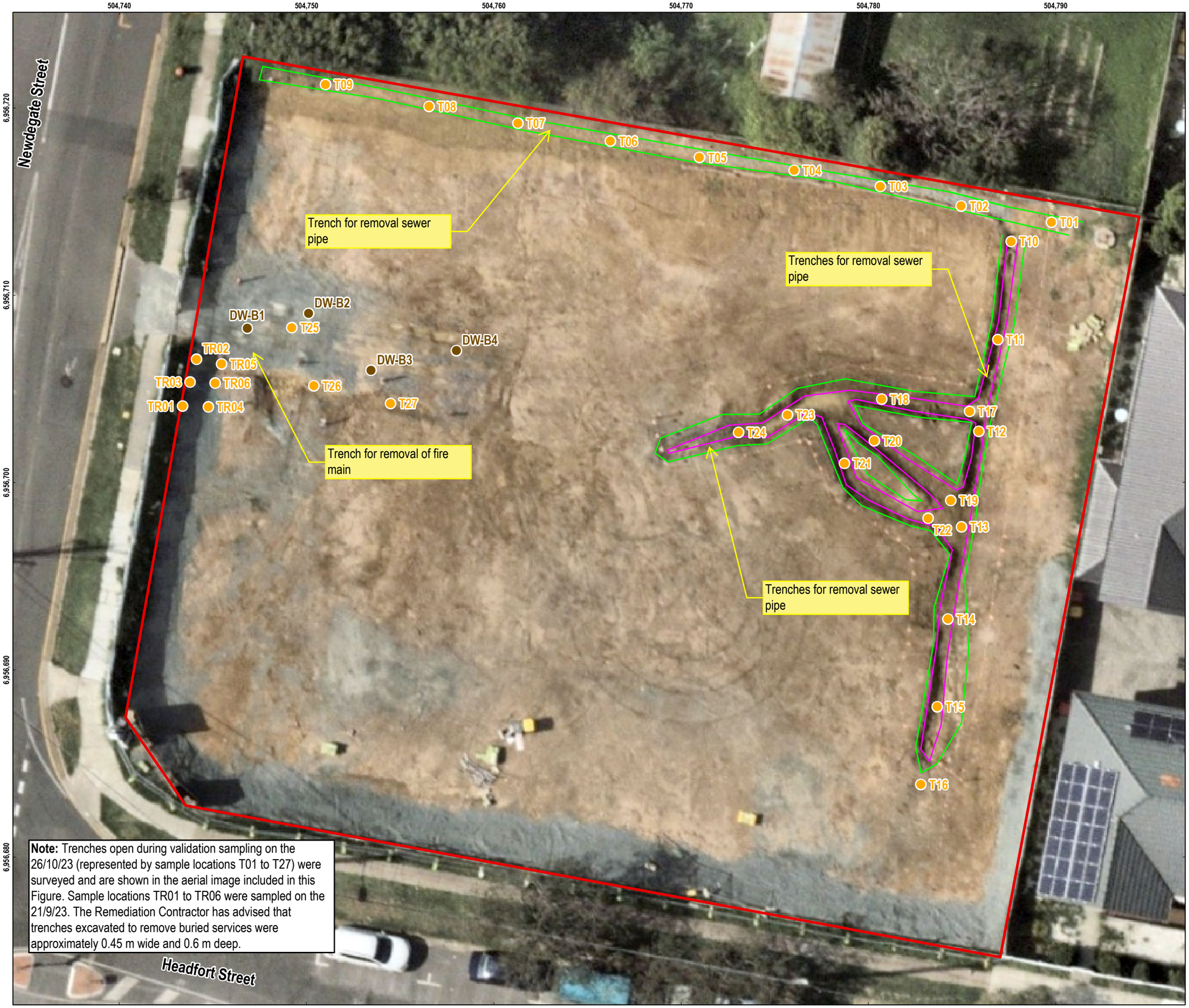
DOC REFERENCE: \\TT.LOCAL\COFS772\GIS\282781_BNEEN_DVA_GREENSLOPES\1_DVAGREENSLOPES\GIS\APRX\282781_VAL_FIGS_AAPRX | LAYOUT:282781_VAL_F006_GIS_1
SAVED BY: ALEX.PAVIS | 16.11.23 2:30 PM




**Note:** Trenches open during validation sampling on the 26/10/23 (represented by sample locations T01 to T27) were surveyed and are shown in the aerial image included in this Figure. Sample locations TR01 to TR06 were sampled on the 21/9/23. The Remediation Contractor has advised that trenches excavated to remove buried services were approximately 0.45 m wide and 0.6 m deep.

## LEGEND

- Trench Validation Point
- Driveway Validation Sample
- Top of trench
- Bottom of trench
- Surveyed Property Boundary

SOURCE
Site boundary and investigation locations from Tetra Tech Coffey.
Aerial imagery from Nearmap (capture date: 13/11/2023)

N

0 2 4 m

SCALE **1:200**
PAGE SIZE: **A3**
PROJECTION: **GDA 1994 MGA Zone 56**

DEPARTMENT OF VETERAN AFFAIRS

DVA GREENSLOPES
51-55 HEADFORT STREET, GREENSLOPES, QLD

# FIGURE 7

## Trench and Driveway Sampling Locations

TETRA TECH COFFEY

DATE: **09.05.24** PROJECT: **754-BNEEN282781** FILE: **282781_VAL_F007_GIS**

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DOC REFERENCE: \\TT.LOCAL\COF\ST72\SIG\S\282781_BNEEN_DVA_GREENSLOPES\1_DVAGREENSLOPES\GIS\APRX\282781_VAL_FIGS_A.APRX | LAYOUT:282781_VAL_F007_GIS_1
SAVED BY: GANGULATAPATTU | 08.04.24 10:32 AM

## LEGEND

- Excavation Floor Validation Point
- Headfort Street Boundary Validation Point
- Newdegate Street Boundary Validation Point
- Northern Boundary Validation Point
- Eastern Boundary Validation Point
- Horizontal Extent of Excavation
- Manhole Cover (Rising Main)
- Surveyed Property Boundary

SOURCE
Site boundary and investigation locations from Tetra Tech Coffey.
Aerial imagery from Nearmap (capture date: 31/10/2023)

N

0 2.5 5 m

SCALE **1:200**
PAGE SIZE: **A3**
PROJECTION: **GDA 1994 MGA Zone 56**

DEPARTMENT OF VETERAN AFFAIRS

DVA GREENSLOPES
51-55 HEADFORT STREET, GREENSLOPES, QLD

# FIGURE 8

## Final Excavation Floor and Boundary Validation Samples

TETRA TECH COFFEY

DATE: **08.01.24** PROJECT: **754-BNEEN282781** FILE: **282781_VAL_F008_GIS**

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SAVED BY: GANGULATAPATTU | 08.01.24 12:33 PM
DOC REFERENCE: \\TT.LOCAL\COFS\72\S\GIS\282781_BNEEN_DVA_GREENSLOPES\1_DVA\GREENSLOPES\GIS\APRX\282781_VAL_FIGS_A.APRX | LAYOUT:282781_VAL_F008_GIS_1

## LEGEND

- Redundant Newdegate Street Validation Locations
- Redundant Northern Boundary Validation Location
- Horizontal Excavation Extent
- Surveyed Property Boundary

SOURCE
Site boundary and investigation locations from Tetra Tech Coffey.
Aerial imagery from Nearmap (capture date: 31/10/2023)

N

0 2 4 m

SCALE **1:200**
PAGE SIZE: **A3**
PROJECTION: **GDA 1994 MGA Zone 56**

DEPARTMENT OF VETERAN AFFAIRS

DVA GREENSLOPES
51-55 HEADFORT STREET, GREENSLOPES, QLD

# FIGURE 9

## Redundant Newdegate Street & Northern Boundary Validation Locations

TETRA TECH COFFEY

DATE: **08.01.24** PROJECT: **754-BNEEN282781** FILE: **282781_VAL_F009_GIS**

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DOC REFERENCE: \\TTT.LOCAL\COF\S772\SI\GIS\282781_BNEEN_DVA_GREENSLOPES\1_DVAGREENSLOPES\GIS\APRX\282781_VAL_FIGS_A.APRX | LAYOUT:282781_VAL_F009_GIS_1
SAVED BY: GANGUL.ATAPATTU | 23.11.23 3:37 PM

## LEGEND

- Imported Fill Sample Locations
- Horizontal Excavation Extent
- Surveyed Property Boundary
- Imported Fill Stockpile Sample Location (Redundant)
- Imported Fill Stockpile (approximate location)

SOURCE
Site boundary and investigation locations from Tetra Tech Coffey.
Aerial imagery from Nearmap (capture date: 31/10/2023)

N

0 2 4 m

SCALE **1:200**
PAGE SIZE: **A3**
PROJECTION: **GDA 1994 MGA Zone 56**

DEPARTMENT OF VETERAN AFFAIRS

DVA GREENSLOPES
51-55 HEADFORT STREET, GREENSLOPES, QLD

# FIGURE 10

## Imported Fill Sample Locations

TETRA TECH COFFEY

DATE: **22.11.23** PROJECT: **754-BNEEN282781** FILE: **282781_VAL_F010_GIS**

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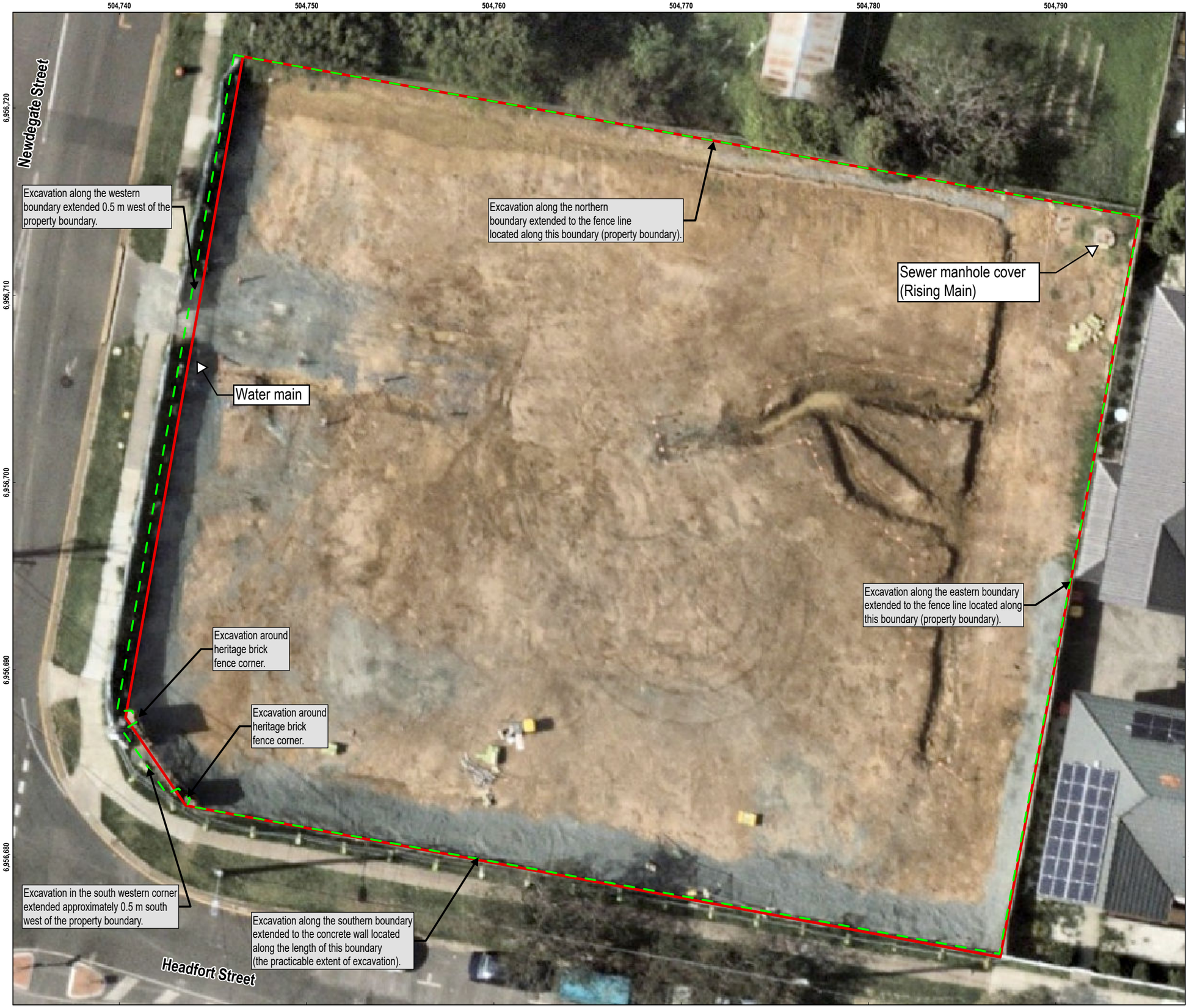
DOC REFERENCE: \\TT.LOCAL\COF\S772\GIS\282781_BNEEN_DVA_GREENSLOPES\1_DVAGREENSLOPES\GIS\APRX\282781_VAL_FIGS_A.APRX | LAYOUT:282781_VAL_F010_GIS_1
SAVED BY: ALEX.PAVIS | 20.11.23 12:08 PM




**LEGEND**

- Horizontal Excavation Extent
- Surveyed Property Boundary

SOURCE
Site boundary and investigation locations from Tetra Tech Coffey.
Aerial imagery from Nearmap (capture date: 13/11/2023)

N

0 2 4 m

SCALE **1:200**
PAGE SIZE: **A3**
PROJECTION: **GDA 1994 MGA Zone 56**

DEPARTMENT OF VETERAN AFFAIRS

DVA GREENSLOPES
51-55 HEADFORT STREET, GREENSLOPES, QLD

# FIGURE 11

## Excavation Extents

TETRA TECH COFFEY

DATE: **19.02.24** PROJECT: **754-BNEEN282781** FILE: **282781_VAL_F011_GIS**

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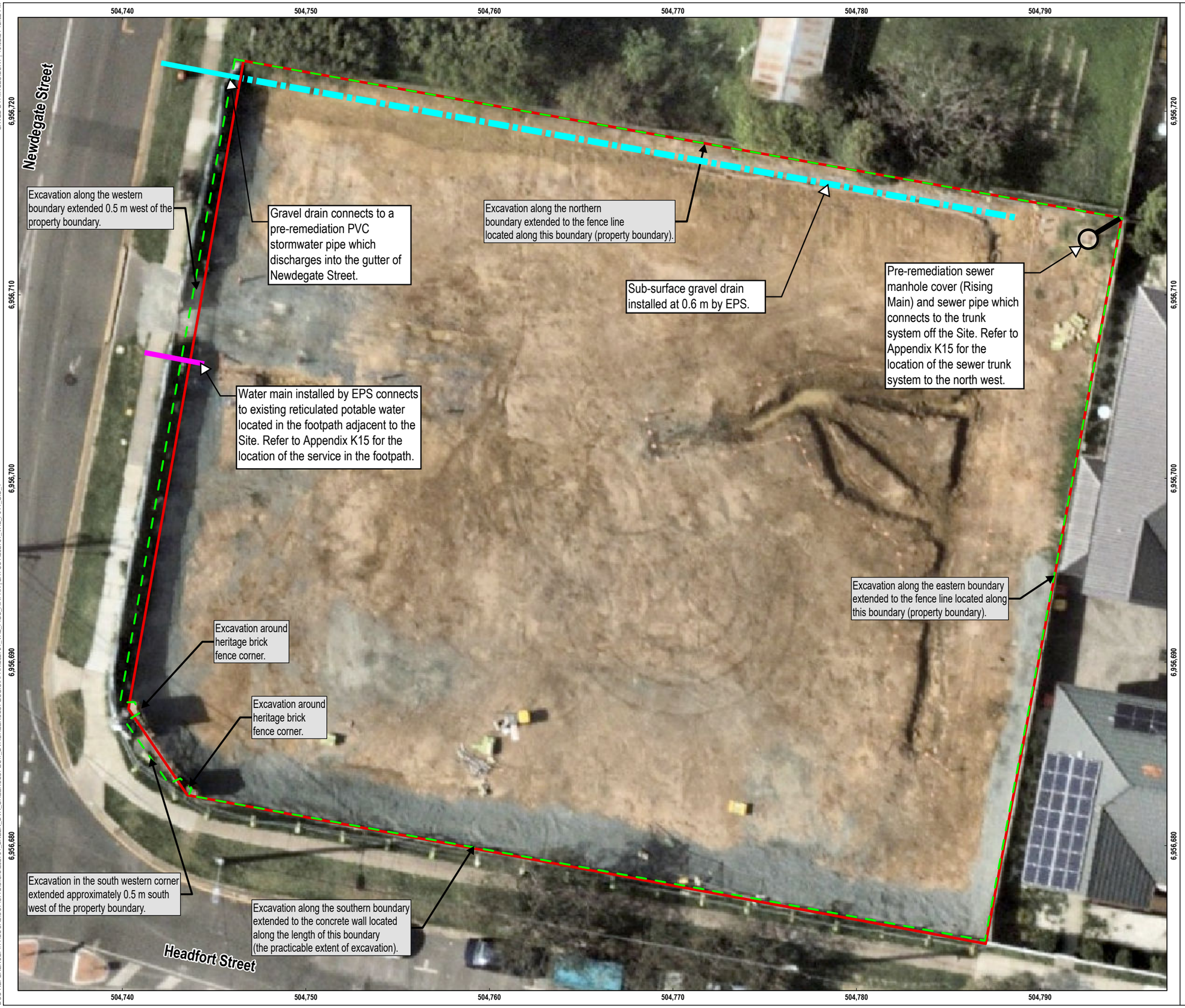
SAVED BY: MYLES.BURT | 19.02.24 12:02 PM
DOC REFERENCE: \\TT.LOCAL\COF\S772\SIG\S282781_BNEEN_DVA_GREENSLOPES\1_DVAGREENSLOPES\GIS\APRX\282781_VAL_FIGS_A.APRX | LAYOUT:282781_VAL_F011_GIS_1




**LEGEND**

- Horizontal Excavation Extent
- Surveyed Property Boundary

Underground Services Post Remediation (approximate location)

- Gravel Drain
- Stormwater Pipe (PVC)
- Water Main
- Sewer Pipe
- Sewer Manhole Cover (Rising Main)

SOURCE
Site boundary and investigation locations from Tetra Tech Coffey.
Aerial imagery from Nearmap (capture date: 13/11/2023)

0 2 4 m

N

SCALE **1:200**
PAGE SIZE: **A3**
PROJECTION: **GDA 1994 MGA Zone 56**

DEPARTMENT OF VETERAN AFFAIRS

DVA GREENSLOPES
51-55 HEADFORT STREET, GREENSLOPES, QLD

# FIGURE 12

## Services Post-Remediation

TETRA TECH COFFEY

DATE: **19.02.24** PROJECT: **754-BNEEN282781** FILE: **282781_VAL_F011_GIS**

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SAVED BY: MYLES.BURT | 19.02.24 12:02 PM
DOC REFERENCE: \\TT.LOCAL\COF\S772\SIG\S282781_BNEEN_DVA_GREENSLOPES\1_DVAGREENSLOPES\GIS\APRX\282781_VAL_FIGS_A.APRX | LAYOUT:282781_VAL_F011_GIS_1

**LEGEND**

- Horizontal Excavation Extent
- Surveyed Property Boundary

SOURCE
Site boundary and investigation locations from Tetra Tech Coffey.
Contours from Department of Resources Queensland
Aerial imagery from Nearmap (capture date: 13/11/2023)

0 2 4 m

N

SCALE **1:200**
PAGE SIZE: **A3**
PROJECTION: **GDA 1994 MGA Zone 56**

DEPARTMENT OF VETERAN AFFAIRS

DVA GREENSLOPES
51-55 HEADFORT STREET, GREENSLOPES, QLD

# FIGURE 13

## Pre-Remediation Ground Levels

TETRA TECH COFFEY

DATE: **08.04.24** PROJECT: **754-BNEEN282781** FILE: **282781_VAL_F012A_GIS**

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DOC REFERENCE: \\TT.LOCAL\COF\S772\SIG\S282781_BNEEN_DVA_GREENSLOPES\1_DVAGREENSLOPES\GIS\APRX\282781_VAL_FIGS_A.APRX | LAYOUT:282781_VAL_F012A_GIS_1
SAVED BY: GANGUL.ATAPATTU | 05.04.24 4:40 PM

**Important Note:** ground levels were surveyed at the time of validation sampling on the 16/10/2023 and included imported materials which had been used in the shorting of boundary walls along the eastern, southern and western portions of the Site as shown in the Figure. The depth of excavations along eastern boundary wall were to approximately 26 m AHD.

## LEGEND

- Horizontal Excavation Extent
- Surveyed Property Boundary
- Approximate location of imported materials used for shoring of boundary walls

SOURCE
Site boundary, Contours and investigation locations from Tetra Tech Coffey.
Aerial imagery from Nearmap (capture date: 13/11/2023)

N

0 2 4 m

SCALE **1:200**
PAGE SIZE: **A3**
PROJECTION: **GDA 1994 MGA Zone 56**

DEPARTMENT OF VETERAN AFFAIRS

DVA GREENSLOPES
51-55 HEADFORT STREET, GREENSLOPES, QLD

# FIGURE 14

## Post-Remediation Ground Levels

TETRA TECH COFFEY

DATE: **08.04.24** PROJECT: **754-BNEEN282781** FILE: **282781_VAL_F012B_GIS**

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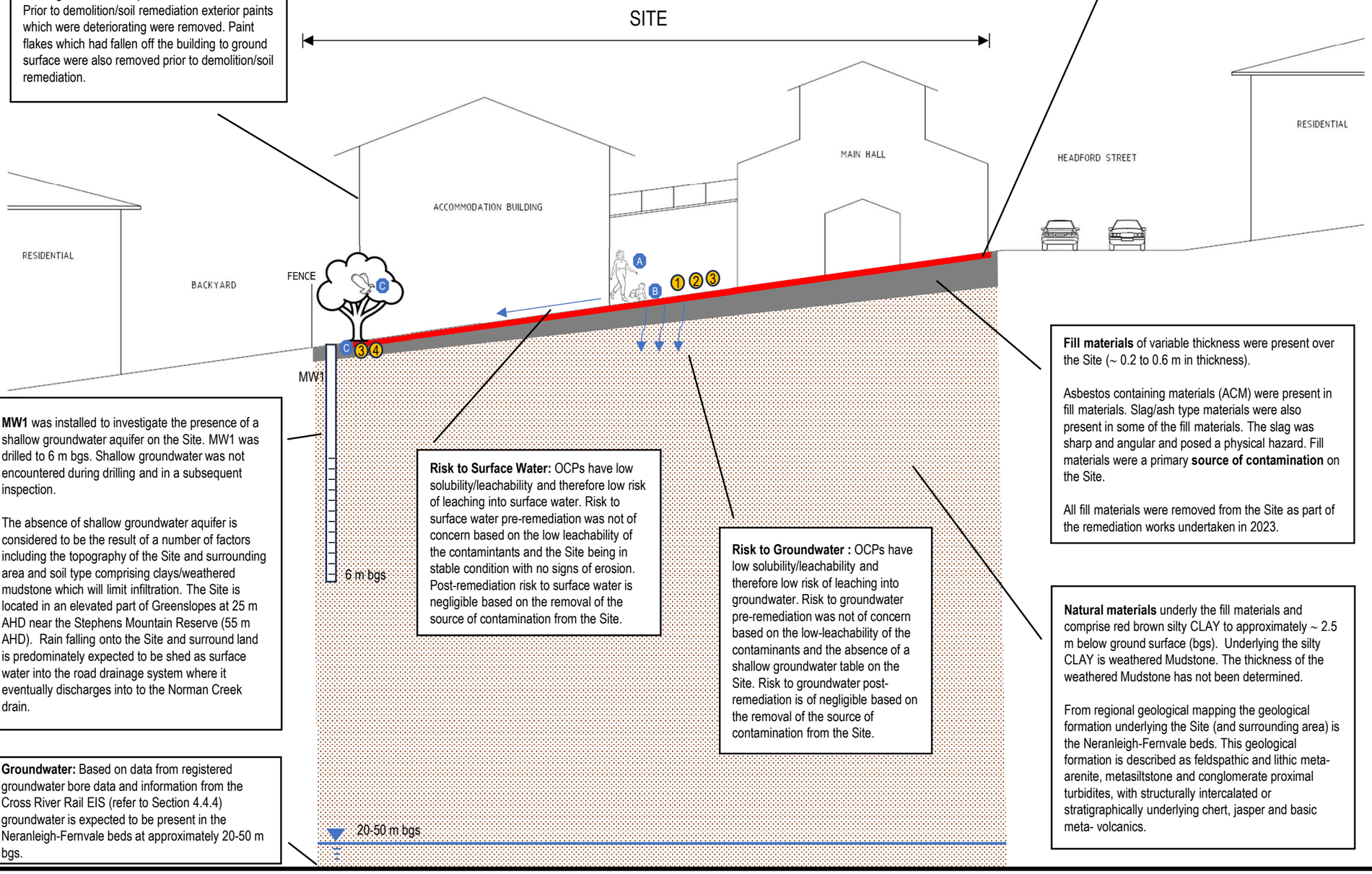
DOC REFERENCE: \\TT.LOCAL\COF\ST72\SIG\S\282781_BNEEN_DVA_GREENSLOPES\1_DVAGREENSLOPES\GIS\APRX\282781_VAL_FIGS_A.APRX | LAYOUT:282781_VAL_F012B_GIS_1
SAVED BY: GANGUL.ATAPATTU | 05.04.24 4:40 PM

| Receptors | Exposure Pathways |
|---|---|
| A Adult future site users / construction and maintenance workers<br>B Child future site users | 1 Inhalation of dust particles and asbestos fibres<br>2 Dermal contact with soil<br>3 Incidental ingestion of soil |
| C Terrestrial flora and fauna | 3 Incidental ingestion of soil<br>4 Biological uptake mechanisms |

**Termiticides** (termite barriers) were historically installed around the perimeter of the buildings and resulted in the contamination of soil materials with organo-chlorine pesticides (OCPs). OCPs in soil were a primary **source of contamination** on the Site. Elevated concentrations of OCPs were generally limited to shallow soil materials less than 0.2 m below ground surface where the termiticides were originally applied.

All soil materials with OCP contamination which exceeded NEPM HIL-A Residential Health Guidelines were removed from the Site as part of the remediation works undertaken in 2023.

**Asbestos containing materials (ACM)** were present in buildings and in paints used on the buildings. Lead based paints were also used. Prior to demolition/soil remediation exterior paints which were deteriorating were removed. Paint flakes which had fallen off the building to ground surface were also removed prior to demolition/soil remediation.




**MW1** was installed to investigate the presence of a shallow groundwater aquifer on the Site. MW1 was drilled to 6 m bgs. Shallow groundwater was not encountered during drilling and in a subsequent inspection.

The absence of shallow groundwater aquifer is considered to be the result of a number of factors including the topography of the Site and surrounding area and soil type comprising clays/weathered mudstone which will limit infiltration. The Site is located in an elevated part of Greenslopes at 25 m AHD near the Stephens Mountain Reserve (55 m AHD). Rain falling onto the Site and surround land is predominately expected to be shed as surface water into the road drainage system where it eventually discharges into to the Norman Creek drain.

**Groundwater:** Based on data from registered groundwater bore data and information from the Cross River Rail EIS (refer to Section 4.4.4) groundwater is expected to be present in the Neranleigh-Fernvale beds at approximately 20-50 m bgs.

**Risk to Surface Water:** OCPs have low solubility/leachability and therefore low risk of leaching into surface water. Risk to surface water pre-remediation was not of concern based on the low leachability of the contamintants and the Site being in stable condition with no signs of erosion. Post-remediation risk to surface water is negligible based on the removal of the source of contamination from the Site.

**Risk to Groundwater :** OCPs have low solubility/leachability and therefore low risk of leaching into groundwater. Risk to groundwater pre-remediation was not of concern based on the low-leachability of the contaminants and the absence of a shallow groundwater table on the Site. Risk to groundwater post-remediation is of negligible based on the removal of the source of contamination from the Site.

**Fill materials** of variable thickness were present over the Site (~ 0.2 to 0.6 m in thickness).

Asbestos containing materials (ACM) were present in fill materials. Slag/ash type materials were also present in some of the fill materials. The slag was sharp and angular and posed a physical hazard. Fill materials were a primary **source of contamination** on the Site.

All fill materials were removed from the Site as part of the remediation works undertaken in 2023.

**Natural materials** underly the fill materials and comprise red brown silty CLAY to approximately ~ 2.5 m below ground surface (bgs). Underlying the silty CLAY is weathered Mudstone. The thickness of the weathered Mudstone has not been determined.

From regional geological mapping the geological formation underlying the Site (and surrounding area) is the Neranleigh-Fernvale beds. This geological formation is described as feldspathic and lithic meta-arenite, metasiltstone and conglomerate proximal turbidites, with structurally intercalated or stratigraphically underlying chert, jasper and basic meta- volcanics.

Legend

- Termite Barrier
- Fill Materials
- Natural Materials

NOT TO SCALE

ILLUSTRATION OF SITE PRE-DEMOLITION AND PRE-REMEDIATION

TETRA TECH COFFEY

**Figure 15 Pre-Remediation Illustrative Conceptual Site Model**

# APPENDIX B: VALIDATION SAMPLE MATERIAL LOGS

## B.1 SOUTHERN BOUNDARY (Headfort Street)

| Sample ID | Depth m bgs | Depth m AHD | Lithology |
|---|---|---|---|
| HS01_ASH_230912 | 0.70 | 27.00 | FILL (ASH): black and dark grey, dry fly ash, with trace burnt timber, trace roots and trace rootlets. |
| HS01_NW_230912 | 0.75 | 26.95 | NATURAL CLAY: uniform, dry, stiff to very stiff, medium to high plasticity, brown to brown/orange. |
| HS01_F_230912 | 0.90 | 26.80 | NATURAL CLAY: uniform, dry, stiff to very stiff, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| HS02_ASH_230912 | 0.70 | 27.00 | ASH: black and dark grey, dry fly ash, with trace burnt timber, trace roots and trace rootlets. |
| HS02_F_230912 | 1.10 | 26.60 | NATURAL CLAY: uniform, dry, stiff to very stiff, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| HS02_NW_230912 | 0.85 | 26.85 | NATURAL CLAY: uniform, dry, stiff to very stiff, medium to high plasticity, brown to brown/orange. |
| HS03_ASH_230912 | 0.80 | 26.90 | FILL (ASH): black and dark grey, dry fly ash, with trace burnt timber, trace roots and trace rootlets. |
| HS03_F_230912 | 1.10 | 26.60 | NATURAL CLAY: uniform, dry, stiff to very stiff, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| HS03_NW_230912 | 0.90 | 26.80 | NATURAL CLAY: uniform, dry, stiff to very stiff, medium to high plasticity, brown to brown/orange. |
| HS04_ASH_230912 | 0.85 | 26.85 | FILL (ASH): black and dark grey, dry fly ash, with trace burnt timber, trace roots and trace rootlets. |
| HS04_F_230912 | 1.10 | 26.60 | NATURAL CLAY: uniform, dry, stiff to very stiff, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| HS04_NW_230912 | 0.90 | 26.80 | NATURAL CLAY: uniform, dry, stiff to very stiff, medium to high plasticity, brown to brown/orange. |
| HS05_ASH_230912 | 0.90 | 26.80 | FILL (ASH): black and dark grey, dry fly ash, with trace burnt timber, trace roots and trace rootlets. |
| HS05_F_230912 | 1.10 | 26.60 | NATURAL CLAY: uniform, dry, stiff to very stiff, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| HS05_NW_230912 | 0.95 | 26.75 | NATURAL CLAY: uniform, dry, stiff to very stiff, medium to high plasticity, brown to brown/orange. |
| HS06_ASH_230912 | 1.00 | 26.70 | FILL (ASH): black and dark grey, dry fly ash, with trace burnt timber, trace roots and trace rootlets. |
| HS06_F_230912 | 1.20 | 26.50 | NATURAL CLAY: uniform, dry, stiff to very stiff, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| HS06_NW_230912 | 1.10 | 26.60 | NATURAL CLAY: uniform, dry, stiff to very stiff, medium to high plasticity, brown to brown/orange. |
| HS07_ASH_230912 | 0.95 | 26.75 | ASH: black and dark grey, dry fly ash, with trace burnt timber, trace roots and trace rootlets. |
| HS07_F_230912 | 1.20 | 26.50 | NATURAL CLAY: uniform, dry, stiff to very stiff, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| HS07_NW_230912 | 1.10 | 26.60 | NATURAL CLAY: uniform, dry, stiff to very stiff, medium to high plasticity, brown to brown/orange. |
| HS08_ASH_230912 | 0.90 | 26.80 | ASH: black and dark grey, dry fly ash, with trace burnt timber, trace roots and trace rootlets. |
| HS08_F_230912 | 1.10 | 26.60 | NATURAL CLAY: uniform, dry, stiff to very stiff, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| HS08_NW_230912 | 1.00 | 26.70 | NATURAL CLAY: uniform, dry, stiff to very stiff, medium to high plasticity, brown to brown/orange. |
| HS11_ASH_230918 | 0.90 | 26.90 | ASH: black and dark grey, dry fly ash, with trace burnt timber, trace roots and trace rootlets. |

| Sample ID | Depth m bgs | Depth m AHD | Lithology |
|---|---|---|---|
| HS11_NW_230918 | 0.95 | 26.85 | NATURAL CLAY: uniform, dry, stiff to very stiff, medium to high plasticity, brown to brown/orange. |
| HS11_FLOOR_230918 | 1.10 | 26.70 | NATURAL CLAY: uniform, dry, stiff to very stiff, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| HS12_ASH_230918 | 0.95 | 26.55 | ASH: black and dark grey, dry fly ash, with trace burnt timber, trace roots and trace rootlets. |
| HS12_NW_230918 | 1.00 | 26.50 | NATURAL CLAY: uniform, dry, stiff to very stiff, medium to high plasticity, brown to brown/orange. |
| HS12_FLOOR_230918 | 1.10 | 26.40 | NATURAL CLAY: uniform, dry, stiff to very stiff, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |

## B.2 South-West Boundary (Corner of Headfort Street and Newdegate Street)

| Sample ID | Depth m bgs | Depth m AHD | Lithology |
|---|---|---|---|
| HS10_TS_230918 | 0.10 | 27.10 | FILL (TOPSOIL): Silty CLAY: dark brown, dry, loose, low plasticity, with rootlets. |
| HS10_ASH_230918 | 0.40 | 26.80 | FILL (ASH): black and dark grey, dry fly ash, with trace burnt timber, trace roots and trace rootlets. |
| HS10_NW_230918 | 0.70 | 26.50 | NATURAL CLAY: uniform, dry, stiff to very stiff, medium to high plasticity, brown to brown/orange. |
| HS10_FLOOR_230918 | 1.00 | 26.20 | NATURAL CLAY: brown to brown/orange, uniform, dry, medium to high plasticity, with trace fine extremely weathered mudstone. |
| HS10_TS_230918 | 0.10 | 27.10 | FILL (TOPSOIL): Silty CLAY: dark brown, dry, loose, low plasticity, with rootlets. |
| HS10A_ASH_230918 | 0.40 | 26.90 | FILL (ASH): black and dark grey, dry fly ash, with trace burnt timber, trace roots and trace rootlets. |
| HS10A_NW_230918 | 0.70 | 26.60 | NATURAL CLAY: brown to brown/orange, uniform, medium to high plasticity, with trace fine extremely weathered mudstone. |
| HS10A_FLOOR_230918 | 1.00 | 26.30 | NATURAL CLAY: brown to brown/orange, uniform, dry, medium to high plasticity, with trace fine extremely weathered mudstone. |
| HS10A_TS_230918 | 0.10 | 27.20 | FILL (TOPSOIL): Silty CLAY: dark brown, dry, loose, low plasticity, with rootlets. |
| HS10A_ASH_230918 | 0.40 | 26.90 | FILL (ASH): black and dark grey, dry fly ash, with trace burnt timber, trace roots and trace rootlets. |
| HS10A_NW_230918 | 0.70 | 26.60 | NATURAL CLAY: brown to brown/orange, uniform, dry, very stiff, medium to high plasticity. |
| HS10A_FLOOR_230918 | 1.00 | 26.30 | NATURAL CLAY: brown to brown/orange, uniform, dry, medium to high plasticity, with trace fine extremely weathered mudstone. |
| HS10B_TS_230918 | 0.10 | 27.10 | FILL (TOPSOIL): Silty CLAY: dark brown, dry, loose, low plasticity, with rootlets. |
| HS10B_ASH_230918 | 0.30 | 26.90 | FILL (ASH): black and dark grey, dry fly ash, with trace burnt timber, trace roots and trace rootlets. |
| HS10B_NW_230918 | 0.70 | 26.50 | NATURAL CLAY: brown to brown/orange, uniform, dry, very stiff, medium to high plasticity. |
| HS10B_FLOOR_230918 | 1.00 | 26.20 | NATURAL CLAY: brown to brown/orange, uniform, dry, medium to high plasticity, with trace fine extremely weathered mudstone. |

## B.3 EASTERN BOUNDARY

| Sample ID | Depth m bgs | Depth m AHD | Lithology |
|---|---|---|---|
| HSA01_TS_230920 | 0.05 | 27.05 | FILL (TOPSOIL): Gravelly SILT: brown low plasticity silt with sub-rounded course gravel, trace rootlets. |
| HSA01_FILL_230920 | 0.20 | 26.90 | FILL: Silty GRAVEL: brown medium to course sub rounded gravel, with low plasticity silt. |
| HSA01_NW_230920 | 0.25 | 26.85 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| HSA02_TS_230920 | 0.05 | 26.75 | FILL (TOPSOIL): Gravelly SILT: brown low plasticity silt with sub-rounded course gravel, trace rootlets. |
| HSA02_FILL_230920 | 0.20 | 26.60 | FILL: Silty GRAVEL: brown medium to course sub rounded gravel, with low plasticity silt. |
| HSA02_NW_230920 | 0.25 | 26.55 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| HSA03_TS_230920 | 0.05 | 26.15 | FILL (TOPSOIL): Gravelly SILT: brown low plasticity silt with sub-rounded course gravel, trace rootlets. |
| HSA03_FILL_230920 | 0.20 | 26.00 | FILL: Silty GRAVEL: brown medium to course sub rounded gravel, with low plasticity silt. |
| HSA03_NW_230920 | 0.25 | 25.95 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| HSA04_TS_230920 | 0.05 | 25.95 | FILL (TOPSOIL): Gravelly SILT: brown low plasticity silt with sub-rounded course gravel, trace rootlets. |
| HSA04_FILL_230920 | 0.20 | 25.80 | FILL: Silty GRAVEL: brown medium to course sub rounded gravel, with low plasticity silt. |
| HSA04_NW_230920 | 0.25 | 25.75 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |

Note 1: sample depths at each location along the eastern boundary wall were measured from the top of the topsoil layer.

## B.4 WESTERN BOUNDARY (NEWDEGATE STREET)

| Sample ID | Depth m bgs | Depth m AHD | Lithology |
|---|---|---|---|
| HSB01_TS_231016 | 0.10 | 26.60 | FILL (TOPSOIL): Silty CLAY: dark brown, dry, loose, low plasticity, with rootlets. |
| HSB01_ASH_231016 | 0.35 | 26.35 | FILL (ASH): black and dark grey, dry fly FILL (ASH), with trace burnt timber, trace roots and trace rootlets. |
| HSB01_NW_231016 | 0.50 | 26.20 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| HSB01_F_231016 | 0.70 | 26.00 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| HSB02_TS_231016 | 0.10 | 26.50 | FILL (TOPSOIL): Silty CLAY: dark brown, dry, loose, low plasticity, with rootlets. |
| HSB02_ASH_231016 | 0.30 | 26.30 | FILL (ASH): black and dark grey, dry fly FILL (ASH), with trace burnt timber, trace roots and trace rootlets. |
| HSB02_NW_231016 | 0.40 | 26.20 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| HSB02_F_231016 | 0.60 | 26.00 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| HSB03_TS_231016 | 0.10 | 25.90 | FILL (TOPSOIL): Silty CLAY: dark brown, dry, loose, low plasticity, with rootlets. |
| HSB03_ASH_231016 | 0.50 | 25.50 | FILL (ASH): black and dark grey, dry fly FILL (ASH), with trace burnt timber, trace roots and trace rootlets. |
| HSB03_NW_231016 | 0.60 | 25.40 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| HSB03_F_231016 | 0.65 | 25.35 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| HSB04_TS_231016 | 0.10 | 25.50 | FILL (TOPSOIL): Silty CLAY: dark brown, dry, loose, low plasticity, with rootlets. |
| HSB04_ASH_231016 | 0.50 | 25.10 | FILL (ASH): black and dark grey, dry fly FILL (ASH), with trace burnt timber, trace roots and trace rootlets. |
| HSB04_NW_231016 | 0.60 | 25.00 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| HSB04_F_231016 | 0.70 | 24.90 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| HSB05_TS_231016 | 0.10 | 25.00 | FILL (TOPSOIL): Silty CLAY: dark brown, dry, loose, low plasticity, with rootlets. |
| HSB05_ASH_231016 | 0.30 | 24.80 | FILL (ASH): black and dark grey, dry fly FILL (ASH), with trace burnt timber, trace roots and trace rootlets. |
| HSB05_F_231016 | 0.45 | 24.65 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| HSB06_TS_231016 | 0.10 | 24.40 | FILL (TOPSOIL): Silty Clay: dark brown, dry, loose, low plasticity, with rootlets. |
| HSB06_ASH_231016 | 0.55 | 23.95 | FILL (ASH): black and dark grey, dry fly FILL (ASH), with trace burnt timber, trace roots and trace rootlets. |
| HSB06_NW_231016 | 0.70 | 23.80 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| HSB06_F_231016 | 0.90 | 23.60 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| HSB07 | 0.10 | 24.10 | NATURAL: silty CLAY: pale brown, uniform, low to medium plasticity, with trace rootlets |
| HSB08 | 0.20 | 23.30 | NATURAL: silty CLAY: pale brown, uniform, low to medium plasticity, with trace rootlets |

## B.5 NORTHERN BOUNDARY

| Sample ID | Depth m bgs | Depth m AHD | Lithology |
|---|---|---|---|
| HSB18 | 0-0.10 | 23.25 | NATURAL: silty CLAY: pale brown, uniform, dry, low to medium plasticity, with trace rootlets. |
| HSB19 | 0-0.10 | 23.35 | NATURAL: silty CLAY: pale brown, uniform, dry, low to medium plasticity, with trace rootlets. |
| HSB20 | 0-0.10 | 23.45 | NATURAL: silty CLAY: pale brown, uniform, dry, low to medium plasticity, with trace rootlets. |
| HSB21 | 0-0.10 | 23.65 | NATURAL: silty CLAY: pale brown, uniform, dry, low to medium plasticity. |
| HSB22 | 0-0.10 | 23.65 | NATURAL: silty CLAY: pale brown, uniform, dry, low to medium plasticity. |
| HSB23 | 0-0.10 | 23.75 | NATURAL: silty CLAY: pale brown, uniform, dry, low to medium plasticity. |
| HSB24 | 0-0.10 | 23.75 | NATURAL: silty CLAY: pale brown, uniform, dry, low to medium plasticity, with trace rootlets. |
| HSB25 | 0-0.10 | 23.75 | NATURAL: silty CLAY: pale brown, uniform, dry, low to medium plasticity, with trace rootlets. |
| HSB26 | 0-0.10 | 23.75 | NATURAL: silty CLAY: pale brown, uniform, dry, low to medium plasticity. |
| HSB27 | 0-0.10 | 23.95 | NATURAL: silty CLAY: pale brown, uniform, dry, low to medium plasticity, with trace rootlets. |

## B.6 DRIVEWAY VALIDATION SAMPLE LOCATIONS

| Sample ID | Depth m bgs | Depth m AHD | Lithology |
|---|---|---|---|
| DW-B1 | 0.30 | 24.40 | NATURAL CLAY: brown to brown/orange, dry, very stiff, uniform, medium to high plasticity, with trace fine extremely weathered mudstone. |
| DW-B2 | 0.30 | 24.40 | NATURAL CLAY: brown to brown/orange, dry, very stiff, uniform, medium to high plasticity, with trace fine extremely weathered mudstone. |
| DW-B3 | 0.30 | 24.20 | NATURAL CLAY: brown to brown/orange, dry, very stiff, uniform, medium to high plasticity, with trace fine extremely weathered mudstone. |
| DW-B4 | 0.30 | 24.20 | NATURAL CLAY: brown to brown/orange, dry, very stiff, uniform, medium to high plasticity, with trace fine to course extremely weathered mudstone. |

## B.7 TRENCH VALIDATION SAMPLE LOCATIONS (TR01 – TR06)

| Sample ID | Depth m bgs | Depth m AHD | Lithology |
|---|---|---|---|
| TR01_TRENCH WALL_230921 | 0.55 | 24.65 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| TR02_TRENCH WALL_230921 | 0.35 | 24.85 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| TR03_TRENCH FLOOR_230921 | 0.60 | 24.60 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| TR04_TRENCH WALL_230921 | 0.25 | 24.95 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| TR05_TRENCH WALL_230921 | 0.25 | 24.95 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| TR06_TRENCH FLOOR_230921 | 0.50 | 24.70 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |

## B.8 TRENCH VALIDATION SAMPLE LOCATIONS (T01 TO T24)

| Sample ID | Depth m bgs | Depth m AHD | Lithology |
|---|---|---|---|
| T01_B | 0.55 | 23.75 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| T01_W1 | 0.23 | 24.08 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T01_W2 | 0.22 | 24.08 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T02_B | 0.50 | 23.50 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| T02_W1 | 0.25 | 23.75 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T02_W2 | 0.30 | 23.70 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T03_B | 0.50 | 23.40 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| T03_W1 | 0.35 | 23.55 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T03_W2 | 0.35 | 23.55 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T04_B | 0.55 | 23.05 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| T04_W1 | 0.32 | 23.28 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T04_W2 | 0.35 | 23.25 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T05_B | 0.55 | 22.85 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| T05_W1 | 0.40 | 23.00 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T05_W2 | 0.30 | 23.10 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T06_B | 0.50 | 22.90 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| T06_W1 | 0.25 | 23.15 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T06_W2 | 0.25 | 23.15 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T07_B | 0.50 | 22.90 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| T07_W1 | 0.25 | 23.15 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T07_W2 | 0.25 | 23.15 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T08_B | 0.55 | 22.85 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| T08_W1 | 0.30 | 23.10 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T08_W2 | 0.21 | 23.19 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T09_B | 0.60 | 22.80 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |

| Sample ID | Depth m bgs | Depth m AHD | Lithology |
|---|---|---|---|
| T09_W1 | 0.30 | 23.10 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T09_W2 | 0.32 | 23.08 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T10_B | 0.60 | 22.90 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| T10_W1 | 0.30 | 23.20 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T10_W2 | 0.30 | 23.20 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T11_B | 0.60 | 23.10 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| T11_W1 | 0.30 | 23.40 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T11_W2 | 0.30 | 23.40 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T12_B | 0.60 | 23.30 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| T12_W1 | 0.30 | 23.60 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T12_W2 | 0.30 | 23.60 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T13_B | 0.60 | 23.70 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| T13_W1 | 0.30 | 24.00 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T13_W2 | 0.30 | 24.00 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T14_B | 0.60 | 24.30 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| T14_W1 | 0.30 | 24.60 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T14_W2 | 0.30 | 24.60 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T15_B | 0.60 | 24.40 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| T15_W1 | 0.30 | 24.70 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T15_W2 | 0.30 | 24.70 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T16_B | 0.60 | 25.10 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| T16_W1 | 0.30 | 25.40 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T16_W2 | 0.30 | 25.40 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T17-B | 0.55 | 23.25 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| T17-W1 | 0.15 | 23.65 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T17-W2 | 0.15 | 23.65 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |

| Sample ID | Depth m bgs | Depth m AHD | Lithology |
|---|---|---|---|
| T18-B | 0.55 | 23.45 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| T18-W1 | 0.35 | 23.65 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T18-W2 | 0.35 | 23.65 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T19-B | 0.40 | 23.90 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| T19-W1 | 0.20 | 24.10 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T19-W2 | 0.25 | 24.05 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T20-B | 0.55 | 23.55 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| T20-W1 | 0.20 | 23.90 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T20-W2 | 0.15 | 23.95 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T21-B | 0.60 | 23.60 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| T21-W1 | 0.25 | 23.95 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T21-W2 | 0.30 | 23.90 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T22_F_231016 | 0.50 | 23.90 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| T22_WA_231016 | 0.15 | 24.25 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T22_WB_231016 | 0.20 | 24.20 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T22-B | 0.38 | 24.02 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| T22-W1 | 0.20 | 24.20 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T22-W2 | 0.20 | 24.20 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T23_F_231016 | 0.50 | 23.40 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| T23_WA_231016 | 0.20 | 23.70 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T23_WB_231016 | 0.25 | 23.65 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T23-B | 0.50 | 23.40 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| T23-W1 | 0.25 | 23.65 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T23-W2 | 0.25 | 23.65 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T24-B | 0.45 | 23.55 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| T24-W1 | 0.15 | 23.85 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |

| Sample ID | Depth m bgs | Depth m AHD | Lithology |
|---|---|---|---|
| T24-W2 | 0.15 | 23.85 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T25_B | 0.60 | 24.00 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| T25_W1 | 0.30 | 24.30 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T25_W2 | 0.30 | 24.30 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T26_B | 0.45 | 23.65 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| T26_W1 | 0.20 | 23.90 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T26_W2 | 0.20 | 23.90 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T27_B | 0.50 | 23.60 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| T27_W1 | 0.19 | 23.91 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |
| T27_W2 | 0.20 | 23.90 | NATURAL CLAY: brown to brown/orange, uniform, dry, stiff to very stiff, medium to high plasticity. |

## B.9 EXCAVATION FOOR VALIDATION SAMPLES

| Sample ID | Depth m bgs | Depth m AHD | Lithology |
|---|---|---|---|
| A1 | 0-0.1 | 23.20 | NATURAL CLAY: uniform, medium to high plasticity, brown to brown/orange, with medium to course extremely weathered rock. |
| A2 | 0-0.1 | 23.30 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| A3 | 0-0.1 | 23.20 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| A4 | 0-0.1 | 23.40 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| A5 | 0-0.1 | 23.20 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| A6 | 0-0.1 | 23.50 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| A7 | 0-0.1 | 23.70 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| A8 | 0-0.1 | 23.80 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| A9 | 0-0.1 | 23.70 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| A10 | 0-0.1 | 24.50 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| B1 | 0-0.1 | 23.60 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| B2 | 0-0.1 | 23.60 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| B3 | 0-0.1 | 23.60 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| B4 | 0-0.1 | 23.60 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| B5 | 0-0.1 | 23.80 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| B6 | 0-0.1 | 23.90 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| B7 | 0-0.1 | 23.90 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| B8 | 0-0.1 | 24.10 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| B9 | 0-0.1 | 23.60 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| B10 | 0-0.1 | 24.70 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| C1 | 0-0.1 | 24.00 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| C2 | 0-0.1 | 24.10 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| C3 | 0-0.1 | 24.00 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| C4 | 0-0.1 | 23.90 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| C5 | 0-0.1 | 24.10 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |

| Sample ID | Depth m bgs | Depth m AHD | Lithology |
|---|---|---|---|
| C6 | 0-0.1 | 24.10 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| C7 | 0-0.1 | 23.90 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| C8 | 0-0.1 | 23.80 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| C9 | 0-0.1 | 23.80 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| C10 | 0-0.1 | 24.80 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| D1 | 0-0.1 | 24.60 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| D2 | 0-0.1 | 24.20 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| D3 | 0-0.1 | 24.10 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| D4 | 0-0.1 | 24.30 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| D5 | 0-0.1 | 24.40 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| D6 | 0-0.1 | 23.90 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| D7 | 0-0.1 | 24.60 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| D8 | 0-0.1 | 24.20 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| D9 | 0-0.1 | 24.20 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| D10 | 0-0.1 | 25.10 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| E1 | 0-0.1 | 25.00 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| E2 | 0-0.1 | 24.70 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| E3 | 0-0.1 | 24.50 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| E4 | 0-0.1 | 24.70 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| E5 | 0-0.1 | 24.80 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| E6 | 0-0.1 | 24.90 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| E7 | 0-0.1 | 24.90 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| E8 | 0-0.1 | 24.90 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| E9 | 0-0.1 | 24.50 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| E10 | 0-0.1 | 25.70 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| F1 | 0-0.1 | 25.40 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |

| Sample ID | Depth m bgs | Depth m AHD | Lithology |
|---|---|---|---|
| F2 | 0-0.1 | 25.10 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| F3 | 0-0.1 | 25.10 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| F4 | 0-0.1 | 25.20 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| F5 | 0-0.1 | 25.20 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| F6 | 0-0.1 | 25.30 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| F7 | 0-0.1 | 25.20 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| F8 | 0-0.1 | 25.20 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| F9 | 0-0.1 | 25.30 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| F10 | 0-0.1 | 25.60 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| G1 | 0-0.1 | 25.80 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| G2 | 0-0.1 | 25.50 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| G3 | 0-0.1 | 25.70 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| G4 | 0-0.1 | 25.80 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| G5 | 0-0.1 | 25.60 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| G6 | 0-0.1 | 25.70 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| G7 | 0-0.1 | 25.70 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| G8 | 0-0.1 | 25.80 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| G9 | 0-0.1 | 25.60 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| G10 | 0-0.1 | 25.90 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| H1 | 0-0.1 | 26.20 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| H2 | 0-0.1 | 25.90 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| H3 | 0-0.1 | 26.00 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| H4 | 0-0.1 | 25.90 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| H5 | 0-0.1 | 25.90 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| H6 | 0-0.1 | 25.80 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| H7 | 0-0.1 | 25.90 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |

| Sample ID | Depth m bgs | Depth m AHD | Lithology |
|---|---|---|---|
| H8 | 0-0.1 | 26.10 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| H9 | 0-0.1 | 26.10 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |
| H10 | 0-0.1 | 26.70 | NATURAL CLAY: uniform, dry, medium to high plasticity, brown to brown/orange, with trace medium to course extremely weathered rock. |

## B.10 IMPORTED MATERIALS

| Sample ID | Depth m bgs | Depth m AHD | Lithology |
|---|---|---|---|
| IF1_231026 | 0-0.1 | - | FILL: Silty Gravel, blue/grey, fine to course, sub angular to sub rounded. |
| IF2_231026 | 0-0.1 | - | FILL: Silty Gravel, blue/grey, fine to course, sub angular to sub rounded. |
| IF3_231026 | 0-0.1 | - | FILL: Silty Gravel, blue/grey, fine to course, sub angular to sub rounded. |
| IF4_231026 | 0-0.1 | - | FILL: Silty Gravel, blue/grey, fine to course, sub angular to sub rounded. |
| IF5_231026 | 0-0.1 | - | FILL: Silty Gravel, blue/grey, fine to course, sub angular to sub rounded. |
| IF6_231026 | 0-0.1 | - | FILL: Silty Gravel, blue/grey, fine to course, sub angular to sub rounded. |

# APPENDIX C: DATA TABLES

## C.1.1 Chemical Results - Final Validation Samples

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | Dieldrin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Remediation Criteria | | | | | | | | | | | - | - | - | 6 | - | 50 | - | - | - | - |
| HS01_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.7 | 27 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS01_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS01_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.75 | 26.95 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS02_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.7 | 27 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS02_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS02_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.85 | 26.85 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS03_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.8 | 26.9 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS03_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS03_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS04_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.85 | 26.85 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS04_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS04_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS05_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS05_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS05_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.95 | 26.75 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS06_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 1 | 26.7 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS06_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.2 | 26.5 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS06_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS07_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.95 | 26.75 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS07_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.2 | 26.5 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS07_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC03_230912 | 12/09/2023 | Headfort Street Boundary DUP | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Duplicate sample of HS07_NW_230912 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC04_230912 | 12/09/2023 | Headfort Street Boundary TRIP | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Triplicate sample of HS07_NW_230912 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 |
| HS08_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS08_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS08_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1 | 26.7 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS09_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 26.7 | 0.45 | 26.25 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS09_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 26.7 | 0.8 | 25.9 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS09_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 26.7 | 0.55 | 26.15 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS10_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.2 | 0.4 | 26.8 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS10_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.2 | 1 | 26.2 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS10_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC01-230918 | 18/09/2023 | Headfort Street Boundary DUP | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Duplicate sample of HS10_NW_230918 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC02_230918 | 18/09/2023 | Headfort Street Boundary TRIP | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Triplicate sample of HS10_NW_230918 | - | - | - | - | - | - | - | - | - | - |
| HS10_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.2 | 0.1 | 27.1 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS10A_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.3 | 0.4 | 26.9 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS10A_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.3 | 1 | 26.3 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS10A_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.3 | 0.7 | 26.6 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS10A_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.3 | 0.1 | 27.2 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS10B_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.2 | 0.3 | 26.9 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS10B_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.2 | 1 | 26.2 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS10B_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS10B_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.2 | 0.1 | 27.1 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS11_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.8 | 0.9 | 26.9 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS11_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.8 | 1.1 | 26.7 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS11_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.8 | 0.95 | 26.85 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS12_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.5 | 0.95 | 26.55 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS12_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.5 | 1.1 | 26.4 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HS12_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.5 | 1 | 26.5 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSA01_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 27.1 | 0.05 | 27.05 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSA01_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 27.1 | 0.2 | 26.9 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSA01_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 27.1 | 0.25 | 26.85 | Boundary | Final | Normal (Sample ID use by lab is HAS01_NW_2309 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSA02_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSA02_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA02_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA02_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26.8 | 0.2 | 26.6 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSA02_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26.8 | 0.25 | 26.55 | Boundary | Final | Normal (Sample ID use by lab is HAS02_NW_2309 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSA03_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSA03_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA03_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA03_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26.2 | 0.2 | 26 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |

## C.1.1 Chemical Results - Final Validation Samples

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | Dieldrin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Remediation Criteria | | | | | | | | | | | - | - | - | 6 | - | 50 | - | - | - | - |
| HSA03_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26.2 | 0.25 | 25.95 | Boundary | Final | Normal (Sample ID use by lab is HAS03_NW_2309 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSA04_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26 | 0.05 | 25.95 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | 0.08 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.08 |
| HSA04_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26 | 0.2 | 25.8 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | 0.1 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.1 |
| HSA04_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26 | 0.25 | 25.75 | Boundary | Final | Normal (Sample ID use by lab is HAS04_NW_2309 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB01_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26.7 | 0.1 | 26.6 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB01_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26.7 | 0.35 | 26.35 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB01_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26.7 | 0.5 | 26.2 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB01_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26.7 | 0.7 | 26 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB02_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26.6 | 0.1 | 26.5 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB02_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26.6 | 0.3 | 26.3 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB02_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26.6 | 0.4 | 26.2 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB02_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26.6 | 0.6 | 26 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB03_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26 | 0.1 | 25.9 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB03_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26 | 0.5 | 25.5 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB03_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26 | 0.6 | 25.4 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB03_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26 | 0.65 | 25.35 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB04_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 25.6 | 0.1 | 25.5 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB04_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 25.6 | 0.5 | 25.1 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB04_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 25.6 | 0.6 | 25 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB04_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 25.6 | 0.7 | 24.9 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB05_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 25.1 | 0.1 | 25 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB05_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 25.1 | 0.3 | 24.8 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB05_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 25.1 | 0.45 | 24.65 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB06_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 24.5 | 0.1 | 24.4 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB06_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC01_DUP_231016 | 16/10/2023 | Newdegate St Boundary DUP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Duplicate sampleof HSB06_ASH_231016 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC02_Trip | 16/10/2023 | Newdegate St Boundary TRIP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Triplicate sample of HSB06_ASH_231016 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 |
| QC03_DUP_231016 | 16/10/2023 | Newdegate St Boundary DUP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Duplicate sampleof HSB06_ASH_231016 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC04_Trip | 16/10/2023 | Newdegate St Boundary TRIP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Triplicate sample of HSB06_ASH_231016 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 |
| HSB06_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 24.5 | 0.7 | 23.8 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB06_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 24.5 | 0.9 | 23.6 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB07 | 26/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 24.2 | 0.1 | 24.1 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB08 | 18/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 23.5 | 0.2 | 23.3 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB18 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.4 | 0.15 | 23.25 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB19 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.5 | 0.15 | 23.35 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB20 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.6 | 0.15 | 23.45 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB21 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.8 | 0.15 | 23.65 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB22 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.8 | 0.15 | 23.65 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB23 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB24 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB25 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB26 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB27 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC101 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Duplicate of HSB27 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC102 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Triplicate of HSB27 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 |
| DW-B1 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.7 | 0.3 | 24.4 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| DW-B2 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.7 | 0.3 | 24.4 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| DW-B3 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.5 | 0.3 | 24.2 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| DW-B4 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.5 | 0.3 | 24.2 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| A1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC106 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Duplicate sample of A1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC107 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Duplicate sample of A1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC107 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Triplicate sample of A1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 |
| A2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.4 | 0.1 | 23.3 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| A3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| A4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.5 | 0.1 | 23.4 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| A5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | <0.05 | <0.05 | 0.12 | 0.12 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| A6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.6 | 0.1 | 23.5 | Floor | Final | Normal | <0.05 | <0.05 | 0.21 | 0.21 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| A7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.8 | 0.1 | 23.7 | Floor | Final | Normal | <0.05 | <0.05 | 0.1 | 0.1 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| A8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| A9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.8 | 0.1 | 23.7 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |

## C.1.1 Chemical Results - Final Validation Samples

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | Dieldrin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Remediation Criteria | | | | | | | | | | | - | - | - | 6 | - | 50 | - | - | - | - |
| A10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| A10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| B1 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| B3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| B4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| B5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | 0.14 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.14 |
| B6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | 0.88 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.88 |
| B7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | <0.05 | <0.05 | 0.2 | 1.5 | <0.05 | <0.1 | <0.05 | <0.05 | 0.06 | 1.3 |
| B8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | 0.78 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.78 |
| B9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| B10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| C1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.1 | 0.1 | 24 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| C2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | 0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.05 |
| C3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.1 | 0.1 | 24 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | 0.98 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.98 |
| QC108 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Duplicate sample of C3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC109 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Duplicate sample of C3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC109 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Triplicate sample of C3 | <0.05 | <0.05 | <0.05 | 0.7 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | 0.7 |
| C4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | 0.3 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.3 |
| C5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | <0.05 | <0.05 | 0.05 | 1.65 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 1.6 |
| C6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | 0.49 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.49 |
| C7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | <0.05 | <0.05 | 0.09 | 0.49 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.4 |
| C7 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC120 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Duplicate sample of C7 | <0.05 | <0.05 | 0.15 | 0.15 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC121 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Duplicate sample of C7 | <0.05 | <0.05 | 0.07 | 0.07 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC121 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Triplicate sample of C7 | <0.05 | <0.05 | 0.19 | 1.63 | <0.05 | 0.21 | <0.05 | <0.05 | <0.2 | 1.44 |
| C8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| C9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | 0.18 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.18 |
| C10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| C10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.7 | 0.1 | 24.6 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| D2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| D3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.5 | <0.05 | <0.05 | <0.05 | <0.05 |
| D4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.4 | 0.1 | 24.3 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 5.2 | <0.05 | <0.05 | <0.05 | <0.05 |
| D4 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.4 | 0.1 | 24.3 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.5 | 0.1 | 24.4 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.4 | <0.05 | <0.05 | <0.05 | <0.05 |
| D6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.7 | <0.05 | <0.05 | <0.05 | <0.05 |
| D7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.7 | 0.1 | 24.6 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.5 | <0.05 | <0.05 | <0.05 | <0.05 |
| D8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 6.2 | <0.05 | <0.05 | <0.05 | <0.05 |
| D8 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| D10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| D10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC116 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Duplicate sample of D10 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC117 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Duplicate sample of D10 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC117 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Triplicate sample of D10 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 |
| E1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.1 | 0.1 | 25 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| E2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| E2 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.7 | <0.05 | <0.05 | <0.05 | <0.05 |
| E4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.6 | <0.05 | <0.05 | <0.05 | <0.05 |
| E4 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.4 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC110 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Duplicate sample of E5 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.2 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC111 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Duplicate sample of E5 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.2 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC111 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Triplicate sample of E5 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.65 | <0.05 | <0.05 | <0.2 | <0.05 |
| E6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| E7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.8 | <0.05 | <0.05 | <0.05 | <0.05 |
| E8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.8 | <0.05 | <0.05 | <0.05 | <0.05 |
| E9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |

## C.1.1 Chemical Results - Final Validation Samples

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | Dieldrin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Remediation Criteria | | | | | | | | | | | - | - | - | 6 | - | 50 | - | - | - | - |
| E10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| F1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.5 | 0.1 | 25.4 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| F2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| F3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| F4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| F5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.4 | <0.05 | <0.05 | <0.05 | <0.05 |
| F6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.4 | 0.1 | 25.3 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| F7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| F8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | 0.09 | <0.05 | <0.1 | <0.05 | <0.05 | 0.05 | 0.09 |
| F9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.4 | 0.1 | 25.3 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| F10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| F10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| G2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.6 | 0.1 | 25.5 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| G3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| G3 | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| G5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| G6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.5 | <0.05 | <0.05 | <0.05 | <0.05 |
| G7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.4 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC112 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Duplicate sample of G7 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.2 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC113 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Duplicate sample of G7 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.2 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC113 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Triplicate sample of G7 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.72 | <0.05 | <0.05 | <0.2 | <0.05 |
| G8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| G9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | 0.05 | <0.05 |
| G10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| G10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.3 | 0.1 | 26.2 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC118 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Duplicate sample of H1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC119 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Duplicate sample of H1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC119 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Triplicate sample of H1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 |
| H2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.4 | <0.05 | <0.05 | <0.05 | <0.05 |
| H3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.1 | 0.1 | 26 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| H4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| H5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| H6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1 | <0.05 | <0.05 | <0.05 | <0.05 |
| H7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.8 | <0.05 | <0.05 | <0.05 | <0.05 |
| H8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.2 | 0.1 | 26.1 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| H9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.2 | 0.1 | 26.1 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC114 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC114 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | - | - | - | - | - | - | - | - | - | - |
| QC115 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC115 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Triplicate sampleof H9 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 |
| H10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.8 | 0.1 | 26.7 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| H10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26.8 | 0.1 | 26.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| TR01_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.55 | 24.65 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| TR02_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.35 | 24.85 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| TR03_TRENCH FLOOR_230921 | 21/09/2023 | Trench | Natural Ground | Floor | 25.2 | 0.6 | 24.6 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC14_230921 | 21/09/2023 | Trench DUP | Natural Ground | Floor | 25.1 | 0.6 | 24.5 | Trench | Final | Duplicate sample of TR03_TRENCH FLOOR_2309 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC15_230921 | 21/09/2023 | Trench TRIP | Natural Ground | Floor | 25.2 | 0.6 | 24.6 | Trench | Final | Triplicate sample of TR03_TRENCHFLOOR_23092 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 |
| TR04_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.25 | 24.95 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| TR05_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.25 | 24.95 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| TR06_TRENCH FLOOR_230921 | 21/09/2023 | Trench | Natural Ground | Floor | 25.2 | 0.5 | 24.7 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T01_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.55 | 23.75 | Trench | Final | Normal (Sample ID used by lab is TS01_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T01_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.225 | 24.075 | Trench | Final | Normal (Sample ID used by lab is TS01_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T01_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.22 | 24.08 | Trench | Final | Normal (Sample ID used by lab is TS01_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T02_B | 18/10/2023 | Trench | Natural Ground | Floor | 24 | 0.5 | 23.5 | Trench | Final | Normal (Sample ID used by lab is TS02_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T02_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24 | 0.25 | 23.75 | Trench | Final | Normal (Sample ID used by lab is TS02_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T02_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24 | 0.3 | 23.7 | Trench | Final | Normal (Sample ID used by lab is TS02_W2) | <0.05 | <0.05 | 0.06 | 1.56 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 1.5 |
| T03_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS03_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC101 | 18/10/2023 | Trench DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Trench | Final | Duplicate sample of TS03_B | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |

## C.1.1 Chemical Results - Final Validation Samples

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | Dieldrin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Remediation Criteria | | | | | | | | | | | - | - | - | 6 | - | 50 | - | - | - | - |
| QC102 | 18/10/2023 | Trench TRIP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Trench | Final | Triplicate sample of TS03_B | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 |
| T03_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.35 | 23.55 | Trench | Final | Normal (Sample ID used by lab is TS03_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T03_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.35 | 23.55 | Trench | Final | Normal (Sample ID used by lab is TS03_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T04_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.6 | 0.55 | 23.05 | Trench | Final | Normal (Sample ID used by lab is TS04_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T04_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.6 | 0.32 | 23.28 | Trench | Final | Normal (Sample ID used by lab is TS04_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T04_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.6 | 0.35 | 23.25 | Trench | Final | Normal (Sample ID used by lab is TS04_W2) | 0.07 | <0.05 | 1.6 | 4.6 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 3 |
| T05_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.55 | 22.85 | Trench | Final | Normal (Sample ID used by lab is TS05_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T05_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.4 | 23 | Trench | Final | Normal (Sample ID used by lab is TS05_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC103 | 18/10/2023 | Trench DUP | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Duplicate sample of TS05_W1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC104 | 18/10/2023 | Trench TRIP | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Triplicate sampleof TS05_W1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 |
| T05_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS05_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T06_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.5 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS06_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T06_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS06_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T06_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS06_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T07_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.5 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS07_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T07_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS07_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T07_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS07_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T08_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.55 | 22.85 | Trench | Final | Normal (Sample ID used by lab is TS08_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T08_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS08_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T08_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.21 | 23.19 | Trench | Final | Normal (Sample ID used by lab is TS08_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T09_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.6 | 22.8 | Trench | Final | Normal (Sample ID used by lab is TS09_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T09_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS09_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T09_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.32 | 23.08 | Trench | Final | Normal (Sample ID used by lab is TS09_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T10_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.5 | 0.6 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS10_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T10_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.5 | 0.3 | 23.2 | Trench | Final | Normal (Sample ID used by lab is TS10_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T10_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.5 | 0.3 | 23.2 | Trench | Final | Normal (Sample ID used by lab is TS10_W2) | <0.05 | <0.05 | <0.05 | 0.14 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.14 |
| T11_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.7 | 0.6 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS11_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T11_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.7 | 0.3 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS11_W1) | <0.05 | <0.05 | <0.05 | 0.35 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.35 |
| T11_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.7 | 0.3 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS11_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T12_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.6 | 23.3 | Trench | Final | Normal (Sample ID used by lab is TS12_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T12_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.3 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS12_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T12_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.3 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS12_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T13_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.6 | 23.7 | Trench | Final | Normal (Sample ID used by lab is TS13_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.5 | <0.05 | <0.05 | <0.05 | <0.05 |
| T13_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.3 | 24 | Trench | Final | Normal (Sample ID used by lab is TS13_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T13_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.3 | 24 | Trench | Final | Normal (Sample ID used by lab is TS13_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.2 | <0.05 | <0.05 | <0.05 | <0.05 |
| T14_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.9 | 0.6 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS14_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T14_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.9 | 0.3 | 24.6 | Trench | Final | Normal (Sample ID used by lab is TS14_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T14_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.9 | 0.3 | 24.6 | Trench | Final | Normal (Sample ID used by lab is TS14_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T15_B | 18/10/2023 | Trench | Natural Ground | Floor | 25 | 0.6 | 24.4 | Trench | Final | Normal (Sample ID used by lab is TS15_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T15_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 25 | 0.3 | 24.7 | Trench | Final | Normal (Sample ID used by lab is TS15_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T15_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 25 | 0.3 | 24.7 | Trench | Final | Normal (Sample ID used by lab is TS15_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T16_B | 18/10/2023 | Trench | Natural Ground | Floor | 25.7 | 0.6 | 25.1 | Trench | Final | Normal (Sample ID used by lab is TS16_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T16_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 25.7 | 0.3 | 25.4 | Trench | Final | Normal (Sample ID used by lab is TS16_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T16_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 25.7 | 0.3 | 25.4 | Trench | Final | Normal (Sample ID used by lab is TS16_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T17-B | 26/10/2023 | Trench | Natural Ground | Floor | 23.8 | 0.55 | 23.25 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T17-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 23.8 | 0.15 | 23.65 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T17-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 23.8 | 0.15 | 23.65 | Trench | Final | Normal | <0.05 | <0.05 | 1.1 | 1.1 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T18-B | 26/10/2023 | Trench | Natural Ground | Floor | 24 | 0.55 | 23.45 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T18-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24 | 0.6 | 23.4 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T18-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.35 | 23.65 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | 0.1 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.1 |
| T18-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.35 | 23.65 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T19-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.4 | 23.9 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T19-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.2 | 24.1 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T19-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.25 | 24.05 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T20-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.55 | 23.55 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T20-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T20-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.15 | 23.95 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.3 | <0.05 | <0.05 | <0.05 | <0.05 |
| T21-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.2 | 0.6 | 23.6 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T21-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24.2 | 0.6 | 23.6 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T21-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.2 | 0.25 | 23.95 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T21-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.2 | 0.3 | 23.9 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |

## C.1.1 Chemical Results - Final Validation Samples

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | Dieldrin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Remediation Criteria | | | | | | | | | | | - | - | - | 6 | - | 50 | - | - | - | - |
| T22-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.38 | 24.02 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.7 | <0.05 | <0.05 | <0.05 | <0.05 |
| T22-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24.4 | 0.38 | 24.02 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.6 | <0.05 | <0.05 | <0.05 | <0.05 |
| T22-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T22_F_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.5 | 23.9 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T22_WA_231016 | 16/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.15 | 24.25 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T22_WB_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T23-B | 26/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T23-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T23-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | 0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.05 |
| T23_F_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T23_WA_231016 | 16/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.2 | 23.7 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T23_WB_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T24-B | 26/10/2023 | Trench | Natural Ground | Floor | 24 | 0.45 | 23.55 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T24-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24 | 0.45 | 23.55 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T24-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.15 | 23.85 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T24-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.15 | 23.85 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T25_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.6 | 0.6 | 24 | Trench | Final | Normal (Sample ID used by lab is TS25_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T25_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.6 | 0.3 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS25_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T25_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.6 | 0.3 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS25_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T26_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.45 | 23.65 | Trench | Final | Normal (Sample ID used by lab is TS26_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 12 | <0.05 | <0.05 | <0.05 | <0.05 |
| T26_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS26_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T26_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS26_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 7.5 | <0.05 | <0.05 | <0.05 | <0.05 |
| T27_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.5 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS27_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.3 | <0.05 | <0.05 | <0.05 | <0.05 |
| T27_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.19 | 23.91 | Trench | Final | Normal (Sample ID used by lab is TS27_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 |
| T27_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS27_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.3 | <0.05 | <0.05 | <0.05 | <0.05 |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

## C.1.1 Chemical Results - Final Validation Samples

| | | | | | | | | | | | Organochlorine Pesticides | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Endosulfan I | Endosulfan II | Endrin | Endrin aldehyde | Endrin ketone | g-BHC (Lindane) | Heptachlor | Methoxychlor | Organochlorine pesticides EPAVic | Other organochlorine pesticides EPAVic |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 | 0.1 |
| Remediation Criteria | | | | | | | | | | | 270 | 270 | 10 | - | - | - | 6 | 300 | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Ground Surface Elevation at Sample Location (m AHD)** | **Sample Depth (m bgs)** | **Sample Depth (m AHD)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | | |
| HS01_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.7 | 27 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS01_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS01_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.75 | 26.95 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS02_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.7 | 27 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS02_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS02_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.85 | 26.85 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS03_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.8 | 26.9 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS03_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS03_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS04_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.85 | 26.85 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS04_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS04_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS05_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS05_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS05_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.95 | 26.75 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS06_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 1 | 26.7 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS06_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.2 | 26.5 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS06_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS07_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.95 | 26.75 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS07_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.2 | 26.5 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS07_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| QC03_230912 | 12/09/2023 | Headfort Street Boundary DUP | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Duplicate sample of HS07_NW_230912 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| QC04_230912 | 12/09/2023 | Headfort Street Boundary TRIP | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Triplicate sample of HS07_NW_230912 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - |
| HS08_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS08_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS08_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1 | 26.7 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS09_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 26.7 | 0.45 | 26.25 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS09_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 26.7 | 0.8 | 25.9 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS09_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 26.7 | 0.55 | 26.15 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS10_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.2 | 0.4 | 26.8 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS10_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.2 | 1 | 26.2 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS10_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| QC01-230918 | 18/09/2023 | Headfort Street Boundary DUP | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Duplicate sample of HS10_NW_230918 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| QC02_230918 | 18/09/2023 | Headfort Street Boundary TRIP | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Triplicate sample of HS10_NW_230918 | - | - | - | - | - | - | - | - | - | - |
| HS10_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.2 | 0.1 | 27.1 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS10A_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.3 | 0.4 | 26.9 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS10A_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.3 | 1 | 26.3 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS10A_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.3 | 0.7 | 26.6 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS10A_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.3 | 0.1 | 27.2 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS10B_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.2 | 0.3 | 26.9 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS10B_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.2 | 1 | 26.2 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS10B_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS10B_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.2 | 0.1 | 27.1 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS11_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.8 | 0.9 | 26.9 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS11_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.8 | 1.1 | 26.7 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS11_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.8 | 0.95 | 26.85 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS12_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.5 | 0.95 | 26.55 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS12_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.5 | 1.1 | 26.4 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HS12_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.5 | 1 | 26.5 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSA01_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 27.1 | 0.05 | 27.05 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSA01_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 27.1 | 0.2 | 26.9 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSA01_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 27.1 | 0.25 | 26.85 | Boundary | Final | Normal (Sample ID use by lab is HAS01_NW_2309 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSA02_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSA02_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA02_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA02_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26.8 | 0.2 | 26.6 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSA02_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26.8 | 0.25 | 26.55 | Boundary | Final | Normal (Sample ID use by lab is HAS02_NW_2309 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSA03_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSA03_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA03_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA03_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26.2 | 0.2 | 26 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |

## C.1.1 Chemical Results - Final Validation Samples

| | | | | | | | | | | | Organochlorine Pesticides | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Endosulfan I | Endosulfan II | Endrin | Endrin aldehyde | Endrin ketone | g-BHC (Lindane) | Heptachlor | Methoxychlor | Organochlorine pesticides EPAVic | Other organochlorine pesticides EPAVic |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 | 0.1 |
| Remediation Criteria | | | | | | | | | | | 270 | 270 | 10 | - | - | - | 6 | 300 | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Ground Surface Elevation at Sample Location (m AHD)** | **Sample Depth (m bgs)** | **Sample Depth (m AHD)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | | |
| HSA03_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26.2 | 0.25 | 25.95 | Boundary | Final | Normal (Sample ID use by lab is HAS03_NW_2309 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSA04_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26 | 0.05 | 25.95 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSA04_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26 | 0.2 | 25.8 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.1 | <0.1 |
| HSA04_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26 | 0.25 | 25.75 | Boundary | Final | Normal (Sample ID use by lab is HAS04_NW_2309 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB01_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26.7 | 0.1 | 26.6 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB01_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26.7 | 0.35 | 26.35 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB01_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26.7 | 0.5 | 26.2 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB01_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26.7 | 0.7 | 26 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB02_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26.6 | 0.1 | 26.5 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB02_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26.6 | 0.3 | 26.3 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB02_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26.6 | 0.4 | 26.2 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB02_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26.6 | 0.6 | 26 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB03_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26 | 0.1 | 25.9 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB03_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26 | 0.5 | 25.5 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB03_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26 | 0.6 | 25.4 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB03_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26 | 0.65 | 25.35 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB04_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 25.6 | 0.1 | 25.5 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB04_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 25.6 | 0.5 | 25.1 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB04_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 25.6 | 0.6 | 25 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB04_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 25.6 | 0.7 | 24.9 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB05_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 25.1 | 0.1 | 25 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB05_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 25.1 | 0.3 | 24.8 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB05_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 25.1 | 0.45 | 24.65 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB06_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 24.5 | 0.1 | 24.4 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB06_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| QC01_DUP_231016 | 16/10/2023 | Newdegate St Boundary DUP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Duplicate sampleof HSB06_ASH_231016 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| QC02_Trip | 16/10/2023 | Newdegate St Boundary TRIP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Triplicate sample of HSB06_ASH_231016 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - |
| QC03_DUP_231016 | 16/10/2023 | Newdegate St Boundary DUP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Duplicate sampleof HSB06_ASH_231016 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| QC04_Trip | 16/10/2023 | Newdegate St Boundary TRIP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Triplicate sample of HSB06_ASH_231016 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - |
| HSB06_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 24.5 | 0.7 | 23.8 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB06_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 24.5 | 0.9 | 23.6 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB07 | 26/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 24.2 | 0.1 | 24.1 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB08 | 18/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 23.5 | 0.2 | 23.3 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB18 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.4 | 0.15 | 23.25 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB19 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.5 | 0.15 | 23.35 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB20 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.6 | 0.15 | 23.45 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB21 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.8 | 0.15 | 23.65 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB22 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.8 | 0.15 | 23.65 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB23 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB24 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB25 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB26 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| HSB27 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| QC101 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Duplicate of HSB27 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| QC102 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Triplicate of HSB27 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - |
| DW-B1 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.7 | 0.3 | 24.4 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| DW-B2 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.7 | 0.3 | 24.4 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| DW-B3 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.5 | 0.3 | 24.2 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| DW-B4 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.5 | 0.3 | 24.2 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| A1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| QC106 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Duplicate sample of A1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| QC107 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Duplicate sample of A1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| QC107 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Triplicate sample of A1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - |
| A2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.4 | 0.1 | 23.3 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| A3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| A4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.5 | 0.1 | 23.4 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| A5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.12 | <0.1 |
| A6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.6 | 0.1 | 23.5 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.21 | <0.1 |
| A7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.8 | 0.1 | 23.7 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.1 | <0.1 |
| A8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| A9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.8 | 0.1 | 23.7 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |

## C.1.1 Chemical Results - Final Validation Samples

| | | | | | | | | | | | Organochlorine Pesticides | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Endosulfan I | Endosulfan II | Endrin | Endrin aldehyde | Endrin ketone | g-BHC (Lindane) | Heptachlor | Methoxychlor | Organochlorine pesticides EPAVic | Other organochlorine pesticides EPAVic |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 | 0.1 |
| Remediation Criteria | | | | | | | | | | | 270 | 270 | 10 | - | - | - | 6 | 300 | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Ground Surface Elevation at Sample Location (m AHD)** | **Sample Depth (m bgs)** | **Sample Depth (m AHD)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | | |
| A10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| A10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| B1 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| B3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| B4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| B5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.14 | <0.1 |
| B6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.88 | <0.1 |
| B7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.56 | <0.1 |
| B8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.78 | <0.1 |
| B9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| B10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| C1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.1 | 0.1 | 24 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| C2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| C3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.1 | 0.1 | 24 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.98 | <0.1 |
| QC108 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Duplicate sample of C3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| QC109 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Duplicate sample of C3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| QC109 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Triplicate sample of C3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - |
| C4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.3 | <0.1 |
| C5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.65 | <0.1 |
| C6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.49 | <0.1 |
| C7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.49 | <0.1 |
| C7 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC120 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Duplicate sample of C7 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.15 | <0.1 |
| QC121 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Duplicate sample of C7 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| QC121 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Triplicate sample of C7 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - |
| C8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| C9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.18 | <0.1 |
| C10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| C10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.7 | 0.1 | 24.6 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| D2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| D3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.5 | 0.5 |
| D4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.4 | 0.1 | 24.3 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.07 | <0.05 | 5.27 | 5.27 |
| D4 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.4 | 0.1 | 24.3 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.5 | 0.1 | 24.4 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.4 | 1.4 |
| D6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | <0.05 | <0.05 | 0.08 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.78 | 0.78 |
| D7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.7 | 0.1 | 24.6 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.5 | 1.5 |
| D8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.06 | <0.05 | 6.26 | 6.26 |
| D8 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| D10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| D10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC116 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Duplicate sample of D10 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| QC117 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Duplicate sample of D10 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| QC117 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Triplicate sample of D10 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - |
| E1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.1 | 0.1 | 25 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| E2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| E2 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.7 | 0.7 |
| E4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.6 | 1.6 |
| E4 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.4 | 0.4 |
| QC110 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Duplicate sample of E5 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.2 | 0.2 |
| QC111 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Duplicate sample of E5 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.2 | 0.2 |
| QC111 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Triplicate sample of E5 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - |
| E6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| E7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | <0.05 | <0.05 | 0.09 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.89 | 0.89 |
| E8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.8 | 0.8 |
| E9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |

## C.1.1 Chemical Results - Final Validation Samples

| | | | | | | | | | | | Organochlorine Pesticides | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Endosulfan I | Endosulfan II | Endrin | Endrin aldehyde | Endrin ketone | g-BHC (Lindane) | Heptachlor | Methoxychlor | Organochlorine pesticides EPAVic | Other organochlorine pesticides EPAVic |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 | 0.1 |
| Remediation Criteria | | | | | | | | | | | 270 | 270 | 10 | - | - | - | 6 | 300 | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Ground Surface Elevation at Sample Location (m AHD)** | **Sample Depth (m bgs)** | **Sample Depth (m AHD)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | | |
| E10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| F1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.5 | 0.1 | 25.4 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.1 | 0.1 |
| F2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.1 | 0.1 |
| F3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| F4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.1 | 0.1 |
| F5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.4 | 1.4 |
| F6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.4 | 0.1 | 25.3 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| F7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| F8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | <0.05 | <0.05 | 0.07 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.21 | <0.1 |
| F9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.4 | 0.1 | 25.3 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| F10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| F10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| G2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.6 | 0.1 | 25.5 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| G3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| G3 | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| G5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| G6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.5 | 0.5 |
| G7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.4 | 0.4 |
| QC112 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Duplicate sample of G7 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.2 | 0.2 |
| QC113 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Duplicate sample of G7 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.2 | 0.2 |
| QC113 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Triplicate sample of G7 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - |
| G8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.1 | 0.1 |
| G9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| G10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| G10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.3 | 0.1 | 26.2 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| QC118 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Duplicate sample of H1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| QC119 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Duplicate sample of H1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| QC119 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Triplicate sample of H1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - |
| H2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.4 | 0.4 |
| H3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.1 | 0.1 | 26 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| H4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.1 | 0.1 |
| H5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| H6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1 | 1 |
| H7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.8 | 0.8 |
| H8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.2 | 0.1 | 26.1 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| H9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.2 | 0.1 | 26.1 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| QC114 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| QC114 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | - | - | - | - | - | - | - | - | - | - |
| QC115 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| QC115 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Triplicate sampleof H9 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - |
| H10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.8 | 0.1 | 26.7 | Floor | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| H10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26.8 | 0.1 | 26.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| TR01_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.55 | 24.65 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| TR02_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.35 | 24.85 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| TR03_TRENCH FLOOR_230921 | 21/09/2023 | Trench | Natural Ground | Floor | 25.2 | 0.6 | 24.6 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| QC14_230921 | 21/09/2023 | Trench DUP | Natural Ground | Floor | 25.1 | 0.6 | 24.5 | Trench | Final | Duplicate sample of TR03_TRENCH FLOOR_2309 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| QC15_230921 | 21/09/2023 | Trench TRIP | Natural Ground | Floor | 25.2 | 0.6 | 24.6 | Trench | Final | Triplicate sample of TR03_TRENCHFLOOR_23092 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - |
| TR04_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.25 | 24.95 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| TR05_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.25 | 24.95 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| TR06_TRENCH FLOOR_230921 | 21/09/2023 | Trench | Natural Ground | Floor | 25.2 | 0.5 | 24.7 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T01_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.55 | 23.75 | Trench | Final | Normal (Sample ID used by lab is TS01_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T01_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.225 | 24.075 | Trench | Final | Normal (Sample ID used by lab is TS01_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T01_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.22 | 24.08 | Trench | Final | Normal (Sample ID used by lab is TS01_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T02_B | 18/10/2023 | Trench | Natural Ground | Floor | 24 | 0.5 | 23.5 | Trench | Final | Normal (Sample ID used by lab is TS02_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T02_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24 | 0.25 | 23.75 | Trench | Final | Normal (Sample ID used by lab is TS02_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T02_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24 | 0.3 | 23.7 | Trench | Final | Normal (Sample ID used by lab is TS02_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.56 | <0.1 |
| T03_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS03_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| QC101 | 18/10/2023 | Trench DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Trench | Final | Duplicate sample of TS03_B | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |

## C.1.1 Chemical Results - Final Validation Samples

| | | | | | | | | | | | Organochlorine Pesticides | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Endosulfan I | Endosulfan II | Endrin | Endrin aldehyde | Endrin ketone | g-BHC (Lindane) | Heptachlor | Methoxychlor | Organochlorine pesticides EPAVic | Other organochlorine pesticides EPAVic |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 | 0.1 |
| Remediation Criteria | | | | | | | | | | | 270 | 270 | 10 | - | - | - | 6 | 300 | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Ground Surface Elevation at Sample Location (m AHD)** | **Sample Depth (m bgs)** | **Sample Depth (m AHD)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | | |
| QC102 | 18/10/2023 | Trench TRIP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Trench | Final | Triplicate sample of TS03_B | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - |
| T03_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.35 | 23.55 | Trench | Final | Normal (Sample ID used by lab is TS03_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T03_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.35 | 23.55 | Trench | Final | Normal (Sample ID used by lab is TS03_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T04_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.6 | 0.55 | 23.05 | Trench | Final | Normal (Sample ID used by lab is TS04_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T04_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.6 | 0.32 | 23.28 | Trench | Final | Normal (Sample ID used by lab is TS04_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T04_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.6 | 0.35 | 23.25 | Trench | Final | Normal (Sample ID used by lab is TS04_W2) | <0.05 | <0.05 | <0.05 | <0.05 | 0.06 | <0.05 | <0.05 | <0.05 | 4.67 | <0.1 |
| T05_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.55 | 22.85 | Trench | Final | Normal (Sample ID used by lab is TS05_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T05_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.4 | 23 | Trench | Final | Normal (Sample ID used by lab is TS05_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| QC103 | 18/10/2023 | Trench DUP | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Duplicate sample of TS05_W1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| QC104 | 18/10/2023 | Trench TRIP | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Triplicate sampleof TS05_W1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - |
| T05_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS05_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T06_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.5 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS06_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T06_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS06_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T06_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS06_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T07_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.5 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS07_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T07_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS07_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T07_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS07_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T08_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.55 | 22.85 | Trench | Final | Normal (Sample ID used by lab is TS08_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T08_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS08_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T08_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.21 | 23.19 | Trench | Final | Normal (Sample ID used by lab is TS08_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T09_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.6 | 22.8 | Trench | Final | Normal (Sample ID used by lab is TS09_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T09_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS09_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T09_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.32 | 23.08 | Trench | Final | Normal (Sample ID used by lab is TS09_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T10_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.5 | 0.6 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS10_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T10_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.5 | 0.3 | 23.2 | Trench | Final | Normal (Sample ID used by lab is TS10_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T10_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.5 | 0.3 | 23.2 | Trench | Final | Normal (Sample ID used by lab is TS10_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.14 | <0.1 |
| T11_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.7 | 0.6 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS11_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T11_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.7 | 0.3 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS11_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.35 | <0.1 |
| T11_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.7 | 0.3 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS11_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T12_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.6 | 23.3 | Trench | Final | Normal (Sample ID used by lab is TS12_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T12_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.3 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS12_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T12_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.3 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS12_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T13_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.6 | 23.7 | Trench | Final | Normal (Sample ID used by lab is TS13_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.5 | 0.5 |
| T13_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.3 | 24 | Trench | Final | Normal (Sample ID used by lab is TS13_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T13_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.3 | 24 | Trench | Final | Normal (Sample ID used by lab is TS13_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.2 | 0.2 |
| T14_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.9 | 0.6 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS14_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T14_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.9 | 0.3 | 24.6 | Trench | Final | Normal (Sample ID used by lab is TS14_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T14_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.9 | 0.3 | 24.6 | Trench | Final | Normal (Sample ID used by lab is TS14_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T15_B | 18/10/2023 | Trench | Natural Ground | Floor | 25 | 0.6 | 24.4 | Trench | Final | Normal (Sample ID used by lab is TS15_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T15_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 25 | 0.3 | 24.7 | Trench | Final | Normal (Sample ID used by lab is TS15_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T15_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 25 | 0.3 | 24.7 | Trench | Final | Normal (Sample ID used by lab is TS15_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T16_B | 18/10/2023 | Trench | Natural Ground | Floor | 25.7 | 0.6 | 25.1 | Trench | Final | Normal (Sample ID used by lab is TS16_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T16_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 25.7 | 0.3 | 25.4 | Trench | Final | Normal (Sample ID used by lab is TS16_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T16_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 25.7 | 0.3 | 25.4 | Trench | Final | Normal (Sample ID used by lab is TS16_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T17-B | 26/10/2023 | Trench | Natural Ground | Floor | 23.8 | 0.55 | 23.25 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T17-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 23.8 | 0.15 | 23.65 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T17-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 23.8 | 0.15 | 23.65 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.1 | <0.1 |
| T18-B | 26/10/2023 | Trench | Natural Ground | Floor | 24 | 0.55 | 23.45 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T18-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24 | 0.6 | 23.4 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T18-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.35 | 23.65 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.1 | <0.1 |
| T18-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.35 | 23.65 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T19-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.4 | 23.9 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T19-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.2 | 24.1 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T19-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.25 | 24.05 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T20-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.55 | 23.55 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T20-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T20-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.15 | 23.95 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.3 | 0.3 |
| T21-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.2 | 0.6 | 23.6 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T21-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24.2 | 0.6 | 23.6 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T21-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.2 | 0.25 | 23.95 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T21-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.2 | 0.3 | 23.9 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |

## C.1.1 Chemical Results - Final Validation Samples

| | | | | | | | | | | | Organochlorine Pesticides | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Endosulfan I | Endosulfan II | Endrin | Endrin aldehyde | Endrin ketone | g-BHC (Lindane) | Heptachlor | Methoxychlor | Organochlorine pesticides EPAVic | Other organochlorine pesticides EPAVic |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 | 0.1 |
| Remediation Criteria | | | | | | | | | | | 270 | 270 | 10 | - | - | - | 6 | 300 | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Ground Surface Elevation at Sample Location (m AHD)** | **Sample Depth (m bgs)** | **Sample Depth (m AHD)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | | |
| T22-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.38 | 24.02 | Trench | Final | Normal | <0.05 | <0.05 | 0.08 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.78 | 0.78 |
| T22-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24.4 | 0.38 | 24.02 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.6 | 1.6 |
| T22-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T22_F_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.5 | 23.9 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T22_WA_231016 | 16/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.15 | 24.25 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T22_WB_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T23-B | 26/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T23-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T23-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T23_F_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T23_WA_231016 | 16/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.2 | 23.7 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T23_WB_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T24-B | 26/10/2023 | Trench | Natural Ground | Floor | 24 | 0.45 | 23.55 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T24-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24 | 0.45 | 23.55 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T24-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.15 | 23.85 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T24-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.15 | 23.85 | Trench | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T25_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.6 | 0.6 | 24 | Trench | Final | Normal (Sample ID used by lab is TS25_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T25_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.6 | 0.3 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS25_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T25_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.6 | 0.3 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS25_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T26_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.45 | 23.65 | Trench | Final | Normal (Sample ID used by lab is TS26_B) | 0.26 | <0.05 | <0.05 | 0.08 | <0.05 | <0.05 | <0.05 | <0.05 | 12.39 | 12.39 |
| T26_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS26_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T26_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS26_W2) | 0.13 | <0.05 | <0.05 | 0.07 | <0.05 | <0.05 | 0.06 | <0.05 | 7.84 | 7.84 |
| T27_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.5 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS27_B) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.3 | 0.3 |
| T27_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.19 | 23.91 | Trench | Final | Normal (Sample ID used by lab is TS27_W1) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 |
| T27_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS27_W2) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.3 | 1.3 |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

## C.1.1 Chemical Results - Final Validation Samples

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | Endosulfan | Endosulfan sulphate | Heptachlor epoxide | Hexachlorobenzene | Toxaphene | DDT+DDE+DDD | Chlordane (cis) | Chlordane (trans) | Arsenic | Cadmium |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | | | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 0.5 | 0.05 | 0.05 | 0.05 | 2 | 0.4 |
| Remediation Criteria | | | | | | | | | | | 270 | - | - | 10 | 20 | 240 | - | - | 160 (Note 1) | 20 |
| HS01_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.7 | 27 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 14 | <0.5 |
| HS01_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 12 | <0.5 |
| HS01_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.75 | 26.95 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 26 | <0.5 |
| HS02_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.7 | 27 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 17 | <0.5 |
| HS02_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 14 | <0.5 |
| HS02_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.85 | 26.85 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 12 | <0.5 |
| HS03_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.8 | 26.9 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 9.1 | <0.5 |
| HS03_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 8.8 | <0.5 |
| HS03_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 9.7 | <0.5 |
| HS04_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.85 | 26.85 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 16 | <0.5 |
| HS04_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 5.4 | <0.5 |
| HS04_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 7.6 | <0.5 |
| HS05_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 6.2 | <0.5 |
| HS05_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 5.4 | <0.5 |
| HS05_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.95 | 26.75 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 4 | <0.5 |
| HS06_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 1 | 26.7 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 12 | <0.5 |
| HS06_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.2 | 26.5 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 4.6 | <0.5 |
| HS06_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 58 | <0.5 |
| HS07_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.95 | 26.75 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 8 | <0.5 |
| HS07_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.2 | 26.5 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 2.4 | <0.5 |
| HS07_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 7.8 | <0.5 |
| QC03_230912 | 12/09/2023 | Headfort Street Boundary DUP | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Duplicate sample of HS07_NW_230912 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 2.1 | <0.5 |
| QC04_230912 | 12/09/2023 | Headfort Street Boundary TRIP | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Triplicate sample of HS07_NW_230912 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.05 | <0.05 | <5 | <1 |
| HS08_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 17 | <0.5 |
| HS08_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 2.8 | <0.5 |
| HS08_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1 | 26.7 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 2.5 | <0.5 |
| HS09_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 26.7 | 0.45 | 26.25 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 41 | <0.5 |
| HS09_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 26.7 | 0.8 | 25.9 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 3 | <0.5 |
| HS09_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 26.7 | 0.55 | 26.15 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 6.3 | <0.5 |
| HS10_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.2 | 0.4 | 26.8 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 3.2 | <0.5 |
| HS10_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.2 | 1 | 26.2 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 2.3 | <0.5 |
| HS10_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 8.5 | <0.5 |
| QC01-230918 | 18/09/2023 | Headfort Street Boundary DUP | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Duplicate sample of HS10_NW_230918 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 15 | <0.5 |
| QC02_230918 | 18/09/2023 | Headfort Street Boundary TRIP | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Triplicate sample of HS10_NW_230918 | - | - | - | - | - | - | - | - | - | - |
| HS10_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.2 | 0.1 | 27.1 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 39 | <0.5 |
| HS10A_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.3 | 0.4 | 26.9 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 7.8 | <0.5 |
| HS10A_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.3 | 1 | 26.3 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 2.7 | <0.5 |
| HS10A_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.3 | 0.7 | 26.6 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 3.5 | <0.5 |
| HS10A_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.3 | 0.1 | 27.2 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 40 | <0.5 |
| HS10B_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.2 | 0.3 | 26.9 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 75 | <0.5 |
| HS10B_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.2 | 1 | 26.2 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 2.5 | <0.5 |
| HS10B_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 2.1 | <0.5 |
| HS10B_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.2 | 0.1 | 27.1 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 5.1 | <0.5 |
| HS11_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.8 | 0.9 | 26.9 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 13 | <0.5 |
| HS11_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.8 | 1.1 | 26.7 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 8.4 | <0.5 |
| HS11_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.8 | 0.95 | 26.85 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 8.1 | <0.5 |
| HS12_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.5 | 0.95 | 26.55 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 19 | <0.5 |
| HS12_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.5 | 1.1 | 26.4 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 8.7 | <0.5 |
| HS12_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.5 | 1 | 26.5 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 8.7 | <0.5 |
| HSA01_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 27.1 | 0.05 | 27.05 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 74 | <0.5 |
| HSA01_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 27.1 | 0.2 | 26.9 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 10 | <0.5 |
| HSA01_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 27.1 | 0.25 | 26.85 | Boundary | Final | Normal (Sample ID use by lab is HAS01_NW_2309 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 13 | <0.5 |
| HSA02_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 350 | <0.5 |
| HSA02_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | 280 | - |
| HSA02_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | 270 | - |
| HSA02_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26.8 | 0.2 | 26.6 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 18 | <0.5 |
| HSA02_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26.8 | 0.25 | 26.55 | Boundary | Final | Normal (Sample ID use by lab is HAS02_NW_2309 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 14 | <0.5 |
| HSA03_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 150 | <0.5 |
| HSA03_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | 110 | - |
| HSA03_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | 170 | - |
| HSA03_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26.2 | 0.2 | 26 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 43 | <0.5 |

## C.1.1 Chemical Results - Final Validation Samples

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | Endosulfan | Endosulfan sulphate | Heptachlor epoxide | Hexachlorobenzene | Toxaphene | DDT+DDE+DDD | Chlordane (cis) | Chlordane (trans) | Arsenic | Cadmium |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | | | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 0.5 | 0.05 | 0.05 | 0.05 | 2 | 0.4 |
| Remediation Criteria | | | | | | | | | | | 270 | - | - | 10 | 20 | 240 | - | - | 160 (Note 1) | 20 |
| HSA03_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26.2 | 0.25 | 25.95 | Boundary | Final | Normal (Sample ID use by lab is HAS03_NW_2309 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 9.3 | <0.5 |
| HSA04_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26 | 0.05 | 25.95 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 78 | <0.5 |
| HSA04_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26 | 0.2 | 25.8 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 31 | <0.5 |
| HSA04_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26 | 0.25 | 25.75 | Boundary | Final | Normal (Sample ID use by lab is HAS04_NW_2309 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 5.1 | <0.5 |
| HSB01_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26.7 | 0.1 | 26.6 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 19 | <0.5 |
| HSB01_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26.7 | 0.35 | 26.35 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 40 | <0.5 |
| HSB01_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26.7 | 0.5 | 26.2 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 3 | <0.5 |
| HSB01_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26.7 | 0.7 | 26 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 4.5 | <0.5 |
| HSB02_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26.6 | 0.1 | 26.5 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 12 | <0.5 |
| HSB02_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26.6 | 0.3 | 26.3 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 22 | <0.5 |
| HSB02_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26.6 | 0.4 | 26.2 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 5.8 | <0.5 |
| HSB02_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26.6 | 0.6 | 26 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 3 | <0.5 |
| HSB03_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26 | 0.1 | 25.9 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 11 | <0.5 |
| HSB03_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26 | 0.5 | 25.5 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 21 | <0.5 |
| HSB03_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26 | 0.6 | 25.4 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 7.6 | <0.5 |
| HSB03_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26 | 0.65 | 25.35 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 22 | <0.5 |
| HSB04_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 25.6 | 0.1 | 25.5 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 13 | <0.5 |
| HSB04_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 25.6 | 0.5 | 25.1 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 13 | <0.5 |
| HSB04_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 25.6 | 0.6 | 25 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 31 | <0.5 |
| HSB04_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 25.6 | 0.7 | 24.9 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 44 | <0.5 |
| HSB05_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 25.1 | 0.1 | 25 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 12 | <0.5 |
| HSB05_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 25.1 | 0.3 | 24.8 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 36 | <0.5 |
| HSB05_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 25.1 | 0.45 | 24.65 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 14 | <0.5 |
| HSB06_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 24.5 | 0.1 | 24.4 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 7.8 | <0.5 |
| HSB06_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 7.3 | <0.5 |
| QC01_DUP_231016 | 16/10/2023 | Newdegate St Boundary DUP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Duplicate sampleof HSB06_ASH_231016 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 5.9 | <0.5 |
| QC02_Trip | 16/10/2023 | Newdegate St Boundary TRIP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Triplicate sample of HSB06_ASH_231016 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.05 | <0.05 | 7 | <1 |
| QC03_DUP_231016 | 16/10/2023 | Newdegate St Boundary DUP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Duplicate sampleof HSB06_ASH_231016 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 16 | <0.5 |
| QC04_Trip | 16/10/2023 | Newdegate St Boundary TRIP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Triplicate sample of HSB06_ASH_231016 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.05 | <0.05 | 7 | <1 |
| HSB06_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 24.5 | 0.7 | 23.8 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 23 | <0.5 |
| HSB06_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 24.5 | 0.9 | 23.6 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 20 | <0.5 |
| HSB07 | 26/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 24.2 | 0.1 | 24.1 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 8.1 | <0.5 |
| HSB08 | 18/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 23.5 | 0.2 | 23.3 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 18 | <0.4 |
| HSB18 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.4 | 0.15 | 23.25 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 48 | <0.5 |
| HSB19 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.5 | 0.15 | 23.35 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 45 | <0.5 |
| HSB20 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.6 | 0.15 | 23.45 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 23 | <0.5 |
| HSB21 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.8 | 0.15 | 23.65 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 11 | <0.5 |
| HSB22 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.8 | 0.15 | 23.65 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 7.5 | <0.5 |
| HSB23 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 9.8 | <0.5 |
| HSB24 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 11 | <0.5 |
| HSB25 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 9.2 | <0.5 |
| HSB26 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 4.7 | <0.5 |
| HSB27 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 5.7 | <0.5 |
| QC101 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Duplicate of HSB27 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 3.9 | <0.5 |
| QC102 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Triplicate of HSB27 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.05 | <0.05 | 5 | <1 |
| DW-B1 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.7 | 0.3 | 24.4 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | <2 | <0.4 |
| DW-B2 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.7 | 0.3 | 24.4 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | <2 | <0.4 |
| DW-B3 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.5 | 0.3 | 24.2 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 3 | <0.4 |
| DW-B4 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.5 | 0.3 | 24.2 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 3.7 | <0.4 |
| A1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 6.2 | <0.5 |
| QC106 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Duplicate sample of A1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 2.8 | <0.5 |
| QC107 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Duplicate sample of A1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 2.5 | <0.5 |
| QC107 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Triplicate sample of A1 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.05 | <0.05 | <5 | <1 |
| A2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.4 | 0.1 | 23.3 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 4.2 | <0.5 |
| A3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 5.9 | <0.5 |
| A4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.5 | 0.1 | 23.4 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 8.2 | <0.5 |
| A5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 11 | <0.5 |
| A6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.6 | 0.1 | 23.5 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 13 | <0.5 |
| A7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.8 | 0.1 | 23.7 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 18 | <0.5 |
| A8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 17 | <0.5 |
| A9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.8 | 0.1 | 23.7 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 6.1 | <0.5 |

## C.1.1 Chemical Results - Final Validation Samples

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | Endosulfan | Endosulfan sulphate | Heptachlor epoxide | Hexachlorobenzene | Toxaphene | DDT+DDE+DDD | Chlordane (cis) | Chlordane (trans) | Arsenic | Cadmium |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 0.5 | 0.05 | 0.05 | 0.05 | 2 | 0.4 |
| Remediation Criteria | | | | | | | | | | | 270 | - | - | 10 | 20 | 240 | - | - | 160 (Note 1) | 20 |
| A10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 11 | <0.5 |
| A10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 3.5 | <0.5 |
| B1 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 5.1 | <0.5 |
| B3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 4 | <0.5 |
| B4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 5.5 | <0.5 |
| B5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 9.3 | <0.5 |
| B6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 7.4 | <0.5 |
| B7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | 0.06 | - | - | 6.6 | <0.5 |
| B8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 7.1 | <0.5 |
| B9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 2.5 | <0.5 |
| B10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 3.5 | <0.5 |
| C1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.1 | 0.1 | 24 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 2 | <0.5 |
| C2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 2.6 | <0.5 |
| C3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.1 | 0.1 | 24 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | <2 | <0.5 |
| QC108 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Duplicate sample of C3 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 5.3 | <0.5 |
| QC109 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Duplicate sample of C3 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 4.9 | <0.5 |
| QC109 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Triplicate sample of C3 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.05 | <0.05 | <5 | <1 |
| C4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 3.6 | <0.5 |
| C5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 10 | <0.5 |
| C6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 10 | <0.5 |
| C7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 9.5 | <0.5 |
| C7 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC120 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Duplicate sample of C7 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 10 | <0.5 |
| QC121 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Duplicate sample of C7 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 9.9 | <0.5 |
| QC121 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Triplicate sample of C7 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | 0.09 | 0.12 | 6 | <1 |
| C8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 8.5 | <0.5 |
| C9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 5.9 | <0.5 |
| C10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 6.8 | <0.5 |
| C10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.7 | 0.1 | 24.6 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 2.6 | <0.5 |
| D2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 4.9 | <0.5 |
| D3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 3.6 | <0.5 |
| D4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.4 | 0.1 | 24.3 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 4.3 | <0.5 |
| D4 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.4 | 0.1 | 24.3 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.5 | 0.1 | 24.4 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 5.7 | <0.5 |
| D6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 7.1 | <0.5 |
| D7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.7 | 0.1 | 24.6 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 12 | <0.5 |
| D8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 14 | <0.5 |
| D8 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 8.8 | <0.5 |
| D10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 6.1 | <0.5 |
| D10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC116 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Duplicate sample of D10 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 7.7 | <0.5 |
| QC117 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Duplicate sample of D10 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 8 | <0.5 |
| QC117 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Triplicate sample of D10 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.05 | <0.05 | <5 | <1 |
| E1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.1 | 0.1 | 25 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 6.6 | <0.5 |
| E2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 3.8 | <0.5 |
| E2 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 4 | <0.5 |
| E4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 7.7 | <0.5 |
| E4 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 5 | <0.5 |
| QC110 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Duplicate sample of E5 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 4.6 | <0.5 |
| QC111 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Duplicate sample of E5 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 4.6 | <0.5 |
| QC111 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Triplicate sample of E5 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | 0.3 | 0.35 | <5 | <1 |
| E6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 8.4 | <0.5 |
| E7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 12 | <0.5 |
| E8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 8.7 | <0.5 |
| E9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 6.9 | <0.5 |

## C.1.1 Chemical Results - Final Validation Samples

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | Endosulfan | Endosulfan sulphate | Heptachlor epoxide | Hexachlorobenzene | Toxaphene | DDT+DDE+DDD | Chlordane (cis) | Chlordane (trans) | Arsenic | Cadmium |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 0.5 | 0.05 | 0.05 | 0.05 | 2 | 0.4 |
| Remediation Criteria | | | | | | | | | | | 270 | - | - | 10 | 20 | 240 | - | - | 160 (Note 1) | 20 |
| E10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 8.9 | <0.5 |
| F1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.5 | 0.1 | 25.4 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | <2 | <0.5 |
| F2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 2.3 | <0.5 |
| F3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | <2 | <0.5 |
| F4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 3.1 | <0.5 |
| F5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 5.2 | <0.5 |
| F6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.4 | 0.1 | 25.3 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 7.1 | <0.5 |
| F7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 8.5 | <0.5 |
| F8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | 0.05 | - | - | 10 | <0.5 |
| F9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.4 | 0.1 | 25.3 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 9.8 | <0.5 |
| F10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 8.3 | <0.5 |
| F10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 3.7 | <0.5 |
| G2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.6 | 0.1 | 25.5 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 2.7 | <0.5 |
| G3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 3.3 | <0.5 |
| G3 | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 8.9 | <0.5 |
| G5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 5.3 | <0.5 |
| G6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 8 | <0.5 |
| G7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 8.8 | <0.5 |
| QC112 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Duplicate sample of G7 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 9.7 | <0.5 |
| QC113 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Duplicate sample of G7 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 7.4 | <0.5 |
| QC113 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Triplicate sample of G7 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | 0.34 | 0.38 | <5 | <1 |
| G8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 11 | <0.5 |
| G9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | 0.05 | - | - | 9.6 | <0.5 |
| G10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 7.4 | <0.5 |
| G10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.3 | 0.1 | 26.2 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 3.7 | <0.5 |
| QC118 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Duplicate sample of H1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 3.8 | <0.5 |
| QC119 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Duplicate sample of H1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 3.6 | <0.5 |
| QC119 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Triplicate sample of H1 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.05 | <0.05 | <5 | <1 |
| H2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 4.7 | <0.5 |
| H3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.1 | 0.1 | 26 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 2.6 | <0.5 |
| H4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 5.4 | <0.5 |
| H5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 6.3 | <0.5 |
| H6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 12 | <0.5 |
| H7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 8.1 | <0.5 |
| H8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.2 | 0.1 | 26.1 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 15 | <0.5 |
| H9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.2 | 0.1 | 26.1 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 16 | <0.5 |
| QC114 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 15 | <0.5 |
| QC114 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | - | - | - | - | - | - | - | - | - | - |
| QC115 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 14 | <0.5 |
| QC115 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Triplicate sampleof H9 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.05 | <0.05 | <5 | <1 |
| H10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.8 | 0.1 | 26.7 | Floor | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 13 | <0.5 |
| H10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26.8 | 0.1 | 26.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| TR01_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.55 | 24.65 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 2.6 | <0.5 |
| TR02_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.35 | 24.85 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 2.3 | <0.5 |
| TR03_TRENCH FLOOR_230921 | 21/09/2023 | Trench | Natural Ground | Floor | 25.2 | 0.6 | 24.6 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 2.6 | <0.5 |
| QC14_230921 | 21/09/2023 | Trench DUP | Natural Ground | Floor | 25.1 | 0.6 | 24.5 | Trench | Final | Duplicate sample of TR03_TRENCH FLOOR_2309 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 4.1 | <0.5 |
| QC15_230921 | 21/09/2023 | Trench TRIP | Natural Ground | Floor | 25.2 | 0.6 | 24.6 | Trench | Final | Triplicate sample of TR03_TRENCHFLOOR_23092 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.05 | <0.05 | <5 | <1 |
| TR04_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.25 | 24.95 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 2.8 | <0.5 |
| TR05_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.25 | 24.95 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 2.7 | <0.5 |
| TR06_TRENCH FLOOR_230921 | 21/09/2023 | Trench | Natural Ground | Floor | 25.2 | 0.5 | 24.7 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 3.6 | <0.5 |
| T01_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.55 | 23.75 | Trench | Final | Normal (Sample ID used by lab is TS01_B) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 15 | <0.4 |
| T01_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.225 | 24.075 | Trench | Final | Normal (Sample ID used by lab is TS01_W1) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 4.6 | <0.4 |
| T01_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.22 | 24.08 | Trench | Final | Normal (Sample ID used by lab is TS01_W2) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 7 | <0.4 |
| T02_B | 18/10/2023 | Trench | Natural Ground | Floor | 24 | 0.5 | 23.5 | Trench | Final | Normal (Sample ID used by lab is TS02_B) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 9.3 | <0.4 |
| T02_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24 | 0.25 | 23.75 | Trench | Final | Normal (Sample ID used by lab is TS02_W1) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 5.6 | <0.4 |
| T02_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24 | 0.3 | 23.7 | Trench | Final | Normal (Sample ID used by lab is TS02_W2) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 7.1 | <0.4 |
| T03_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS03_B) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 5.6 | <0.4 |
| QC101 | 18/10/2023 | Trench DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Trench | Final | Duplicate sample of TS03_B | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 6.5 | <0.4 |

## C.1.1 Chemical Results - Final Validation Samples

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | Endosulfan | Endosulfan sulphate | Heptachlor epoxide | Hexachlorobenzene | Toxaphene | DDT+DDE+DDD | Chlordane (cis) | Chlordane (trans) | Arsenic | Cadmium |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 0.5 | 0.05 | 0.05 | 0.05 | 2 | 0.4 |
| Remediation Criteria | | | | | | | | | | | 270 | - | - | 10 | 20 | 240 | - | - | 160 (Note 1) | 20 |
| QC102 | 18/10/2023 | Trench TRIP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Trench | Final | Triplicate sample of TS03_B | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.05 | <0.05 | 6 | <1 |
| T03_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.35 | 23.55 | Trench | Final | Normal (Sample ID used by lab is TS03_W1) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 5.1 | <0.4 |
| T03_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.35 | 23.55 | Trench | Final | Normal (Sample ID used by lab is TS03_W2) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 9.1 | <0.4 |
| T04_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.6 | 0.55 | 23.05 | Trench | Final | Normal (Sample ID used by lab is TS04_B) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 9.2 | <0.4 |
| T04_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.6 | 0.32 | 23.28 | Trench | Final | Normal (Sample ID used by lab is TS04_W1) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 4.4 | <0.4 |
| T04_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.6 | 0.35 | 23.25 | Trench | Final | Normal (Sample ID used by lab is TS04_W2) | - | <0.05 | <0.05 | <0.05 | <0.5 | 0.07 | - | - | 14 | <0.4 |
| T05_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.55 | 22.85 | Trench | Final | Normal (Sample ID used by lab is TS05_B) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 10 | <0.4 |
| T05_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.4 | 23 | Trench | Final | Normal (Sample ID used by lab is TS05_W1) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 12 | <0.4 |
| QC103 | 18/10/2023 | Trench DUP | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Duplicate sample of TS05_W1 | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 6.1 | <0.4 |
| QC104 | 18/10/2023 | Trench TRIP | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Triplicate sampleof TS05_W1 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.05 | <0.05 | 8 | <1 |
| T05_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS05_W2) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 11 | <0.4 |
| T06_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.5 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS06_B) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 8.6 | <0.4 |
| T06_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS06_W1) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 9.1 | <0.4 |
| T06_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS06_W2) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 7.4 | <0.4 |
| T07_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.5 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS07_B) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 3.2 | <0.4 |
| T07_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS07_W1) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 6.3 | <0.4 |
| T07_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS07_W2) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 6.9 | <0.4 |
| T08_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.55 | 22.85 | Trench | Final | Normal (Sample ID used by lab is TS08_B) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 3.9 | <0.4 |
| T08_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS08_W1) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 18 | <0.4 |
| T08_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.21 | 23.19 | Trench | Final | Normal (Sample ID used by lab is TS08_W2) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 5.4 | <0.4 |
| T09_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.6 | 22.8 | Trench | Final | Normal (Sample ID used by lab is TS09_B) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 2.6 | <0.4 |
| T09_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS09_W1) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 15 | <0.4 |
| T09_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.32 | 23.08 | Trench | Final | Normal (Sample ID used by lab is TS09_W2) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 3.6 | <0.4 |
| T10_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.5 | 0.6 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS10_B) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 4.9 | <0.4 |
| T10_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.5 | 0.3 | 23.2 | Trench | Final | Normal (Sample ID used by lab is TS10_W1) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 5.2 | <0.4 |
| T10_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.5 | 0.3 | 23.2 | Trench | Final | Normal (Sample ID used by lab is TS10_W2) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 11 | <0.4 |
| T11_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.7 | 0.6 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS11_B) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 6.4 | <0.4 |
| T11_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.7 | 0.3 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS11_W1) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 6.7 | <0.4 |
| T11_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.7 | 0.3 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS11_W2) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 5.5 | <0.4 |
| T12_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.6 | 23.3 | Trench | Final | Normal (Sample ID used by lab is TS12_B) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 8.1 | <0.4 |
| T12_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.3 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS12_W1) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 6.2 | <0.4 |
| T12_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.3 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS12_W2) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 6.7 | <0.4 |
| T13_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.6 | 23.7 | Trench | Final | Normal (Sample ID used by lab is TS13_B) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 8.4 | <0.4 |
| T13_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.3 | 24 | Trench | Final | Normal (Sample ID used by lab is TS13_W1) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 8.4 | <0.4 |
| T13_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.3 | 24 | Trench | Final | Normal (Sample ID used by lab is TS13_W2) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 8.6 | <0.4 |
| T14_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.9 | 0.6 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS14_B) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 8.2 | <0.4 |
| T14_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.9 | 0.3 | 24.6 | Trench | Final | Normal (Sample ID used by lab is TS14_W1) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 7.3 | <0.4 |
| T14_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.9 | 0.3 | 24.6 | Trench | Final | Normal (Sample ID used by lab is TS14_W2) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 13 | <0.4 |
| T15_B | 18/10/2023 | Trench | Natural Ground | Floor | 25 | 0.6 | 24.4 | Trench | Final | Normal (Sample ID used by lab is TS15_B) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 13 | <0.4 |
| T15_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 25 | 0.3 | 24.7 | Trench | Final | Normal (Sample ID used by lab is TS15_W1) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 8.8 | <0.4 |
| T15_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 25 | 0.3 | 24.7 | Trench | Final | Normal (Sample ID used by lab is TS15_W2) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 12 | <0.4 |
| T16_B | 18/10/2023 | Trench | Natural Ground | Floor | 25.7 | 0.6 | 25.1 | Trench | Final | Normal (Sample ID used by lab is TS16_B) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 12 | <0.4 |
| T16_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 25.7 | 0.3 | 25.4 | Trench | Final | Normal (Sample ID used by lab is TS16_W1) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 11 | <0.4 |
| T16_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 25.7 | 0.3 | 25.4 | Trench | Final | Normal (Sample ID used by lab is TS16_W2) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 32 | <0.4 |
| T17-B | 26/10/2023 | Trench | Natural Ground | Floor | 23.8 | 0.55 | 23.25 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 11 | <0.5 |
| T17-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 23.8 | 0.15 | 23.65 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 8.4 | <0.5 |
| T17-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 23.8 | 0.15 | 23.65 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 9.2 | <0.5 |
| T18-B | 26/10/2023 | Trench | Natural Ground | Floor | 24 | 0.55 | 23.45 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 14 | <0.5 |
| T18-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24 | 0.6 | 23.4 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T18-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.35 | 23.65 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 16 | <0.5 |
| T18-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.35 | 23.65 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 9.9 | <0.5 |
| T19-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.4 | 23.9 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 6.7 | <0.5 |
| T19-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.2 | 24.1 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 6.6 | <0.5 |
| T19-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.25 | 24.05 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 13 | <0.5 |
| T20-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.55 | 23.55 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 7.2 | <0.5 |
| T20-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 14 | <0.5 |
| T20-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.15 | 23.95 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 5 | <0.5 |
| T21-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.2 | 0.6 | 23.6 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 17 | <0.5 |
| T21-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24.2 | 0.6 | 23.6 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T21-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.2 | 0.25 | 23.95 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 13 | <0.5 |
| T21-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.2 | 0.3 | 23.9 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 10 | <0.5 |

## C.1.1 Chemical Results - Final Validation Samples

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | Endosulfan | Endosulfan sulphate | Heptachlor epoxide | Hexachlorobenzene | Toxaphene | DDT+DDE+DDD | Chlordane (cis) | Chlordane (trans) | Arsenic | Cadmium |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 0.5 | 0.05 | 0.05 | 0.05 | 2 | 0.4 |
| Remediation Criteria | | | | | | | | | | | 270 | - | - | 10 | 20 | 240 | - | - | 160 (Note 1) | 20 |
| T22-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.38 | 24.02 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 7.7 | <0.5 |
| T22-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24.4 | 0.38 | 24.02 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 12 | <0.5 |
| T22-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 6.3 | <0.5 |
| T22_F_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.5 | 23.9 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 10 | <0.5 |
| T22_WA_231016 | 16/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.15 | 24.25 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 11 | <0.5 |
| T22_WB_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 10 | <0.5 |
| T23-B | 26/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 9.8 | <0.5 |
| T23-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 14 | <0.5 |
| T23-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 9.8 | <0.5 |
| T23_F_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 20 | <0.5 |
| T23_WA_231016 | 16/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.2 | 23.7 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 9.8 | <0.5 |
| T23_WB_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 11 | <0.5 |
| T24-B | 26/10/2023 | Trench | Natural Ground | Floor | 24 | 0.45 | 23.55 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 16 | <0.5 |
| T24-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24 | 0.45 | 23.55 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T24-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.15 | 23.85 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 10 | <0.5 |
| T24-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.15 | 23.85 | Trench | Final | Normal | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - | - | 12 | <0.5 |
| T25_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.6 | 0.6 | 24 | Trench | Final | Normal (Sample ID used by lab is TS25_B) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 2.4 | <0.4 |
| T25_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.6 | 0.3 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS25_W1) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 2.9 | <0.4 |
| T25_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.6 | 0.3 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS25_W2) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 2.6 | <0.4 |
| T26_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.45 | 23.65 | Trench | Final | Normal (Sample ID used by lab is TS26_B) | - | <0.05 | 0.05 | <0.05 | <0.5 | <0.05 | - | - | 3.5 | <0.4 |
| T26_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS26_W1) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 2.4 | <0.4 |
| T26_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS26_W2) | - | <0.05 | 0.08 | <0.05 | <0.5 | <0.05 | - | - | 4.1 | <0.4 |
| T27_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.5 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS27_B) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 4 | <0.4 |
| T27_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.19 | 23.91 | Trench | Final | Normal (Sample ID used by lab is TS27_W1) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 3.4 | <0.4 |
| T27_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS27_W2) | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 3.3 | <0.4 |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

## C.1.1 Chemical Results - Final Validation Samples

| | | | | | | | | | | | Metals | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Chromium (hexavalent) | Chromium (Total) | Copper | Lead | Mercury | Nickel | Zinc | Chlorpyrifos-methyl | Demeton-S | Ethoprop |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 1 | 2 | 5 | 5 | 0.1 | 2 | 5 | 0.05 | 0.2 | 0.2 |
| Remediation Criteria | | | | | | | | | | | 100 | 12000 (Note 2) | 6000 | 300 | 40 | 400 | 7400 | - | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Ground Surface Elevation at Sample Location (m AHD)** | **Sample Depth (m bgs)** | **Sample Depth (m AHD)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | | |
| HS01_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.7 | 27 | Boundary | Final | Normal | - | 29 | 18 | 21 | 0.2 | 11 | 64 | - | - | - |
| HS01_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | 110 | 17 | 180 | <0.1 | 32 | 56 | - | - | - |
| HS01_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.75 | 26.95 | Boundary | Final | Normal | - | 170 | 25 | 25 | <0.1 | 49 | 67 | - | - | - |
| HS02_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.7 | 27 | Boundary | Final | Normal | - | 5.8 | 13 | <5 | <0.1 | 9.1 | 14 | - | - | - |
| HS02_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | 180 | 26 | <5 | <0.1 | 57 | 31 | - | - | - |
| HS02_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.85 | 26.85 | Boundary | Final | Normal | - | 96 | 10 | <5 | <0.1 | 24 | 21 | - | - | - |
| HS03_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.8 | 26.9 | Boundary | Final | Normal | - | <5 | 9.2 | <5 | <0.1 | 5.2 | 10 | - | - | - |
| HS03_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | 130 | 29 | <5 | <0.1 | 53 | 28 | - | - | - |
| HS03_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | 150 | 26 | 5.8 | <0.1 | 59 | 31 | - | - | - |
| HS04_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.85 | 26.85 | Boundary | Final | Normal | - | <5 | 16 | 8.9 | 0.2 | 5 | 24 | - | - | - |
| HS04_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | 62 | 6.6 | <5 | <0.1 | 23 | 17 | - | - | - |
| HS04_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | 77 | 9.2 | 7.9 | <0.1 | 30 | 29 | - | - | - |
| HS05_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | <5 | 8.8 | <5 | <0.1 | 5.8 | 14 | - | - | - |
| HS05_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | 71 | 9.5 | 6.3 | <0.1 | 37 | 28 | - | - | - |
| HS05_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.95 | 26.75 | Boundary | Final | Normal | - | 53 | 7.1 | <5 | <0.1 | 23 | 18 | - | - | - |
| HS06_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 1 | 26.7 | Boundary | Final | Normal | - | <5 | 14 | 11 | <0.1 | 8.1 | 31 | - | - | - |
| HS06_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.2 | 26.5 | Boundary | Final | Normal | - | 92 | 16 | 7.5 | <0.1 | 47 | 31 | - | - | - |
| HS06_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | 64 | 32 | 33 | <0.1 | 37 | 260 | - | - | - |
| HS07_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.95 | 26.75 | Boundary | Final | Normal | - | <5 | 13 | 9.4 | <0.1 | 7.5 | 17 | - | - | - |
| HS07_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.2 | 26.5 | Boundary | Final | Normal | - | 39 | 8.9 | <5 | <0.1 | 25 | 21 | - | - | - |
| HS07_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | 46 | 8.8 | 5.9 | <0.1 | 43 | 36 | - | - | - |
| QC03_230912 | 12/09/2023 | Headfort Street Boundary DUP | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Duplicate sample of HS07_NW_230912 | - | 40 | 6.4 | <5 | <0.1 | 31 | 23 | - | - | - |
| QC04_230912 | 12/09/2023 | Headfort Street Boundary TRIP | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Triplicate sample of HS07_NW_230912 | - | 27 | 5 | <5 | <0.1 | 22 | 15 | <0.05 | - | - |
| HS08_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | <5 | 14 | 33 | <0.1 | 5.2 | 160 | - | - | - |
| HS08_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | 94 | 18 | 5.1 | <0.1 | 45 | 35 | - | - | - |
| HS08_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1 | 26.7 | Boundary | Final | Normal | - | 70 | 11 | <5 | <0.1 | 48 | 39 | - | - | - |
| HS09_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 26.7 | 0.45 | 26.25 | Boundary | Final | Normal | - | 40 | 22 | 230 | <0.1 | 13 | 190 | - | - | - |
| HS09_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 26.7 | 0.8 | 25.9 | Boundary | Final | Normal | - | 67 | 11 | 10 | <0.1 | 36 | 29 | - | - | - |
| HS09_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 26.7 | 0.55 | 26.15 | Boundary | Final | Normal | - | 50 | 9.3 | 8.7 | <0.1 | 24 | 22 | - | - | - |
| HS10_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.2 | 0.4 | 26.8 | Boundary | Final | Normal | - | 15 | 13 | 34 | <0.1 | 12 | 62 | - | - | - |
| HS10_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.2 | 1 | 26.2 | Boundary | Final | Normal | - | 75 | 13 | <5 | <0.1 | 37 | 26 | - | - | - |
| HS10_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Normal | - | 45 | 9.1 | <5 | <0.1 | 24 | 23 | - | - | - |
| QC01-230918 | 18/09/2023 | Headfort Street Boundary DUP | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Duplicate sample of HS10_NW_230918 | - | 22 | 29 | 98 | <0.1 | 9.5 | 160 | - | - | - |
| QC02_230918 | 18/09/2023 | Headfort Street Boundary TRIP | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Triplicate sample of HS10_NW_230918 | - | - | - | - | - | - | - | - | - | - |
| HS10_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.2 | 0.1 | 27.1 | Boundary | Final | Normal | - | 28 | 18 | 87 | <0.1 | 14 | 96 | - | - | - |
| HS10A_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.3 | 0.4 | 26.9 | Boundary | Final | Normal | - | 7.7 | 14 | 26 | <0.1 | 6.8 | 48 | - | - | - |
| HS10A_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.3 | 1 | 26.3 | Boundary | Final | Normal | - | 88 | 15 | 6.2 | <0.1 | 42 | 34 | - | - | - |
| HS10A_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.3 | 0.7 | 26.6 | Boundary | Final | Normal | - | 93 | 16 | 7.6 | <0.1 | 43 | 36 | - | - | - |
| HS10A_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.3 | 0.1 | 27.2 | Boundary | Final | Normal | - | 18 | 28 | 130 | <0.1 | 8.7 | 170 | - | - | - |
| HS10B_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.2 | 0.3 | 26.9 | Boundary | Final | Normal | - | 24 | 21 | 30 | <0.1 | 16 | 56 | - | - | - |
| HS10B_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.2 | 1 | 26.2 | Boundary | Final | Normal | - | 95 | 15 | <5 | <0.1 | 45 | 30 | - | - | - |
| HS10B_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Normal | - | 66 | 11 | <5 | <0.1 | 31 | 25 | - | - | - |
| HS10B_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.2 | 0.1 | 27.1 | Boundary | Final | Normal | - | 22 | 13 | 42 | <0.1 | 11 | 100 | - | - | - |
| HS11_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.8 | 0.9 | 26.9 | Boundary | Final | Normal | - | 39 | 18 | 48 | <0.1 | 16 | 70 | - | - | - |
| HS11_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.8 | 1.1 | 26.7 | Boundary | Final | Normal | - | 160 | 22 | <5 | <0.1 | 56 | 32 | - | - | - |
| HS11_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.8 | 0.95 | 26.85 | Boundary | Final | Normal | - | 170 | 21 | <5 | <0.1 | 55 | 32 | - | - | - |
| HS12_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.5 | 0.95 | 26.55 | Boundary | Final | Normal | - | 37 | 31 | 100 | <0.1 | 14 | 190 | - | - | - |
| HS12_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.5 | 1.1 | 26.4 | Boundary | Final | Normal | - | 180 | 25 | <5 | <0.1 | 58 | 34 | - | - | - |
| HS12_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.5 | 1 | 26.5 | Boundary | Final | Normal | - | 180 | 25 | <5 | <0.1 | 63 | 38 | - | - | - |
| HSA01_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 27.1 | 0.05 | 27.05 | Boundary | Final | Normal | - | 42 | 38 | 40 | <0.1 | 12 | 73 | - | - | - |
| HSA01_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 27.1 | 0.2 | 26.9 | Boundary | Final | Normal | - | 210 | 25 | <5 | <0.1 | 70 | 38 | - | - | - |
| HSA01_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 27.1 | 0.25 | 26.85 | Boundary | Final | Normal (Sample ID use by lab is HAS01_NW_2309 | - | 37 | 24 | 80 | <0.1 | 15 | 250 | - | - | - |
| HSA02_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | - | 140 | 180 | 48 | <0.1 | 12 | 130 | - | - | - |
| HSA02_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA02_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA02_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26.8 | 0.2 | 26.6 | Boundary | Final | Normal | - | 71 | 21 | 40 | <0.1 | 23 | 110 | - | - | - |
| HSA02_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26.8 | 0.25 | 26.55 | Boundary | Final | Normal (Sample ID use by lab is HAS02_NW_2309 | - | 230 | 24 | <5 | <0.1 | 61 | 44 | - | - | - |
| HSA03_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | - | 55 | 65 | 42 | <0.1 | 11 | 97 | - | - | - |
| HSA03_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA03_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA03_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26.2 | 0.2 | 26 | Boundary | Final | Normal | - | 82 | 35 | 47 | 0.1 | 23 | 280 | - | - | - |

## C.1.1 Chemical Results - Final Validation Samples

| | | | | | | | | | | | Metals | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Chromium (hexavalent) | Chromium (Total) | Copper | Lead | Mercury | Nickel | Zinc | Chlorpyrifos-methyl | Demeton-S | Ethoprop |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 1 | 2 | 5 | 5 | 0.1 | 2 | 5 | 0.05 | 0.2 | 0.2 |
| Remediation Criteria | | | | | | | | | | | 100 | 12000 (Note 2) | 6000 | 300 | 40 | 400 | 7400 | - | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Ground Surface Elevation at Sample Location (m AHD)** | **Sample Depth (m bgs)** | **Sample Depth (m AHD)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | | |
| HSA03_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26.2 | 0.25 | 25.95 | Boundary | Final | Normal (Sample ID use by lab is HAS03_NW_2309 | - | 170 | 14 | 5.3 | <0.1 | 43 | 27 | - | - | - |
| HSA04_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26 | 0.05 | 25.95 | Boundary | Final | Normal | - | 65 | 46 | 13 | <0.1 | 13 | 52 | - | - | - |
| HSA04_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26 | 0.2 | 25.8 | Boundary | Final | Normal | - | 43 | 19 | 8.6 | <0.1 | 14 | 49 | - | - | - |
| HSA04_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26 | 0.25 | 25.75 | Boundary | Final | Normal (Sample ID use by lab is HAS04_NW_2309 | - | 86 | 9.6 | 22 | <0.1 | 20 | 35 | - | - | - |
| HSB01_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26.7 | 0.1 | 26.6 | Boundary | Final | Normal | - | 29 | 17 | 130 | <0.1 | 12 | 220 | - | - | - |
| HSB01_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26.7 | 0.35 | 26.35 | Boundary | Final | Normal | - | 23 | 22 | 42 | <0.1 | 9.2 | 150 | - | - | - |
| HSB01_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26.7 | 0.5 | 26.2 | Boundary | Final | Normal | - | 76 | 14 | 5.7 | <0.1 | 34 | 29 | - | - | - |
| HSB01_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26.7 | 0.7 | 26 | Boundary | Final | Normal | - | 85 | 15 | 9 | <0.1 | 35 | 34 | - | - | - |
| HSB02_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26.6 | 0.1 | 26.5 | Boundary | Final | Normal | - | 32 | 19 | 160 | <0.1 | 14 | 250 | - | - | - |
| HSB02_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26.6 | 0.3 | 26.3 | Boundary | Final | Normal | - | 39 | 25 | 95 | <0.1 | 16 | 140 | - | - | - |
| HSB02_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26.6 | 0.4 | 26.2 | Boundary | Final | Normal | - | 140 | 23 | 8.4 | <0.1 | 57 | 38 | - | - | - |
| HSB02_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26.6 | 0.6 | 26 | Boundary | Final | Normal | - | 86 | 14 | 5.6 | <0.1 | 34 | 24 | - | - | - |
| HSB03_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26 | 0.1 | 25.9 | Boundary | Final | Normal | - | 26 | 21 | 200 | <0.1 | 13 | 270 | - | - | - |
| HSB03_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26 | 0.5 | 25.5 | Boundary | Final | Normal | - | 36 | 22 | 74 | <0.1 | 17 | 94 | - | - | - |
| HSB03_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26 | 0.6 | 25.4 | Boundary | Final | Normal | - | 46 | 7.7 | 9 | <0.1 | 19 | 24 | - | - | - |
| HSB03_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26 | 0.65 | 25.35 | Boundary | Final | Normal | - | 53 | 11 | 22 | <0.1 | 21 | 36 | - | - | - |
| HSB04_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 25.6 | 0.1 | 25.5 | Boundary | Final | Normal | - | 26 | 20 | 190 | <0.1 | 16 | 290 | - | - | - |
| HSB04_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 25.6 | 0.5 | 25.1 | Boundary | Final | Normal | - | 16 | 46 | 140 | <0.1 | 14 | 180 | - | - | - |
| HSB04_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 25.6 | 0.6 | 25 | Boundary | Final | Normal | - | 60 | 16 | 190 | <0.1 | 23 | 91 | - | - | - |
| HSB04_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 25.6 | 0.7 | 24.9 | Boundary | Final | Normal | - | 80 | 25 | 370 | <0.1 | 32 | 150 | - | - | - |
| HSB05_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 25.1 | 0.1 | 25 | Boundary | Final | Normal | - | 18 | 28 | 160 | <0.1 | 12 | 230 | - | - | - |
| HSB05_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 25.1 | 0.3 | 24.8 | Boundary | Final | Normal | - | 6.7 | 43 | 39 | <0.1 | 12 | 110 | - | - | - |
| HSB05_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 25.1 | 0.45 | 24.65 | Boundary | Final | Normal | - | 53 | 7 | 12 | <0.1 | 19 | 26 | - | - | - |
| HSB06_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 24.5 | 0.1 | 24.4 | Boundary | Final | Normal | - | 35 | 19 | 110 | <0.1 | 18 | 150 | - | - | - |
| HSB06_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Normal | - | 6.6 | 7.6 | 94 | <0.1 | <5 | 50 | - | - | - |
| QC01_DUP_231016 | 16/10/2023 | Newdegate St Boundary DUP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Duplicate sampleof HSB06_ASH_231016 | - | 29 | 15 | 49 | <0.1 | 9.7 | 120 | - | - | - |
| QC02_Trip | 16/10/2023 | Newdegate St Boundary TRIP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Triplicate sample of HSB06_ASH_231016 | - | 11 | 10 | 76 | <0.1 | 5 | 53 | - | - | - |
| QC03_DUP_231016 | 16/10/2023 | Newdegate St Boundary DUP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Duplicate sampleof HSB06_ASH_231016 | - | 17 | 17 | 81 | <0.1 | 8.7 | 120 | - | - | - |
| QC04_Trip | 16/10/2023 | Newdegate St Boundary TRIP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Triplicate sample of HSB06_ASH_231016 | - | 10 | 15 | 39 | <0.1 | 6 | 44 | - | - | - |
| HSB06_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 24.5 | 0.7 | 23.8 | Boundary | Final | Normal | - | 130 | 24 | 52 | <0.1 | 56 | 100 | - | - | - |
| HSB06_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 24.5 | 0.9 | 23.6 | Boundary | Final | Normal | - | 70 | 19 | 39 | <0.1 | 38 | 77 | - | - | - |
| HSB07 | 26/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 24.2 | 0.1 | 24.1 | Boundary | Final | Normal | - | 37 | 23 | 92 | <0.1 | 16 | 460 | - | - | - |
| HSB08 | 18/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 23.5 | 0.2 | 23.3 | Boundary | Final | Normal | - | 36 | 13 | 57 | <0.1 | 16 | 150 | - | - | - |
| HSB18 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.4 | 0.15 | 23.25 | Boundary | Final | Normal | - | 68 | 9.1 | 39 | <0.1 | 16 | 62 | - | - | - |
| HSB19 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.5 | 0.15 | 23.35 | Boundary | Final | Normal | - | 120 | 30 | 14 | <0.1 | 83 | 68 | - | - | - |
| HSB20 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.6 | 0.15 | 23.45 | Boundary | Final | Normal | - | 95 | 28 | 35 | <0.1 | 47 | 130 | - | - | - |
| HSB21 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.8 | 0.15 | 23.65 | Boundary | Final | Normal | - | 65 | 11 | 15 | <0.1 | 20 | 28 | - | - | - |
| HSB22 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.8 | 0.15 | 23.65 | Boundary | Final | Normal | - | 81 | 9.4 | 5.8 | <0.1 | 17 | 15 | - | - | - |
| HSB23 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | - | 70 | 14 | 31 | <0.1 | 22 | 75 | - | - | - |
| HSB24 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | - | 170 | 19 | 7.1 | <0.1 | 42 | 38 | - | - | - |
| HSB25 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | - | 110 | 6.4 | 5.8 | <0.1 | 13 | 26 | - | - | - |
| HSB26 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | - | 96 | 17 | 7 | <0.1 | 29 | 40 | - | - | - |
| HSB27 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Normal | - | 79 | 19 | 22 | <0.1 | 27 | 150 | - | - | - |
| QC101 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Duplicate of HSB27 | - | 66 | 14 | 14 | <0.1 | 20 | 95 | - | - | - |
| QC102 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Triplicate of HSB27 | - | 42 | 16 | 20 | <0.1 | 17 | 133 | - | - | - |
| DW-B1 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.7 | 0.3 | 24.4 | Floor | Final | Normal | - | 55 | 7.9 | 5.8 | <0.1 | 21 | 17 | - | - | - |
| DW-B2 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.7 | 0.3 | 24.4 | Floor | Final | Normal | - | 77 | 6.9 | <5 | <0.1 | 21 | 15 | - | - | - |
| DW-B3 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.5 | 0.3 | 24.2 | Floor | Final | Normal | - | 91 | 12 | 5.1 | <0.1 | 33 | 20 | - | - | - |
| DW-B4 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.5 | 0.3 | 24.2 | Floor | Final | Normal | - | 69 | 10 | 5.1 | <0.1 | 22 | 15 | - | - | - |
| A1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | - | 99 | 34 | <5 | <0.1 | 29 | 26 | - | - | - |
| QC106 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Duplicate sample of A1 | - | 120 | 30 | <5 | <0.1 | 32 | 28 | - | - | - |
| QC107 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Duplicate sample of A1 | - | 120 | 27 | 5 | <0.1 | 32 | 28 | - | - | - |
| QC107 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Triplicate sample of A1 | - | 56 | 22 | <5 | <0.1 | 14 | 13 | - | - | - |
| A2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.4 | 0.1 | 23.3 | Floor | Final | Normal | - | 82 | 17 | 12 | <0.1 | 29 | 26 | - | - | - |
| A3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | - | 130 | 22 | 16 | <0.1 | 36 | 36 | - | - | - |
| A4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.5 | 0.1 | 23.4 | Floor | Final | Normal | - | 86 | 10 | 11 | <0.1 | 23 | 26 | - | - | - |
| A5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | - | 130 | 23 | 9.9 | <0.1 | 37 | 31 | - | - | - |
| A6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.6 | 0.1 | 23.5 | Floor | Final | Normal | - | 130 | 18 | 12 | <0.1 | 36 | 42 | - | - | - |
| A7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.8 | 0.1 | 23.7 | Floor | Final | Normal | - | 100 | 19 | 43 | <0.1 | 31 | 170 | - | - | - |
| A8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | 130 | 18 | 15 | <0.1 | 37 | 48 | - | - | - |
| A9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.8 | 0.1 | 23.7 | Floor | Final | Normal | - | 46 | 12 | 23 | <0.1 | 16 | 48 | - | - | - |

## C.1.1 Chemical Results - Final Validation Samples

| | | | | | | | | | | | Metals | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Chromium (hexavalent) | Chromium (Total) | Copper | Lead | Mercury | Nickel | Zinc | Chlorpyrifos-methyl | Demeton-S | Ethoprop |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 1 | 2 | 5 | 5 | 0.1 | 2 | 5 | 0.05 | 0.2 | 0.2 |
| Remediation Criteria | | | | | | | | | | | 100 | 12000 (Note 2) | 6000 | 300 | 40 | 400 | 7400 | - | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Ground Surface Elevation at Sample Location (m AHD)** | **Sample Depth (m bgs)** | **Sample Depth (m AHD)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | | |
| A10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | 70 | 40 | 110 | 0.2 | 19 | 170 | - | - | - |
| A10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | - | - | - | 0.3 | - | - | - | - | - |
| B1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | 190 | 86 | <5 | <0.1 | 59 | 37 | - | - | - |
| B1 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | <1 | - | - | - | - | - | - | - | - | - |
| B2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | 110 | 37 | 10 | <0.1 | 38 | 35 | - | - | - |
| B3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | 87 | 14 | 11 | <0.1 | 25 | 31 | - | - | - |
| B4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | 89 | 13 | 7.7 | <0.1 | 29 | 31 | - | - | - |
| B5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | 120 | 13 | 6 | <0.1 | 31 | 25 | - | - | - |
| B6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | 77 | 11 | <5 | <0.1 | 14 | 21 | - | - | - |
| B7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | 78 | 11 | 13 | <0.1 | 18 | 43 | - | - | - |
| B8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | 100 | 25 | 19 | <0.1 | 27 | 60 | - | - | - |
| B9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | 79 | 8.8 | <5 | <0.1 | 17 | 16 | - | - | - |
| B10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | 94 | 15 | 14 | <0.1 | 34 | 49 | - | - | - |
| C1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.1 | 0.1 | 24 | Floor | Final | Normal | - | 110 | 35 | <5 | <0.1 | 33 | 26 | - | - | - |
| C2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | 120 | 33 | <5 | <0.1 | 32 | 21 | - | - | - |
| C3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.1 | 0.1 | 24 | Floor | Final | Normal | - | 47 | <5 | 5.7 | <0.1 | 15 | 15 | - | - | - |
| QC108 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Duplicate sample of C3 | - | 49 | 9.1 | 22 | <0.1 | 18 | 36 | - | - | - |
| QC109 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Duplicate sample of C3 | - | 120 | 16 | 9.2 | <0.1 | 51 | 30 | - | - | - |
| QC109 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Triplicate sample of C3 | - | 35 | <5 | 9 | <0.1 | 9 | 10 | - | - | - |
| C4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | 30 | 5.8 | 13 | <0.1 | 6.8 | 20 | - | - | - |
| C5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | 72 | 17 | 41 | <0.1 | 24 | 74 | - | - | - |
| C6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | 100 | 20 | 18 | <0.1 | 26 | 48 | - | - | - |
| C7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | 130 | 17 | 9.6 | <0.1 | 34 | 36 | - | - | - |
| C7 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | <1 | - | - | - | - | - | - | - | - | - |
| QC120 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Duplicate sample of C7 | - | 120 | 18 | 15 | <0.1 | 33 | 40 | - | - | - |
| QC121 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Duplicate sample of C7 | - | 140 | 22 | 7.1 | <0.1 | 41 | 42 | - | - | - |
| QC121 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Triplicate sample of C7 | - | 67 | 15 | 15 | <0.1 | 24 | 37 | - | - | - |
| C8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | 110 | 20 | 22 | <0.1 | 35 | 59 | - | - | - |
| C9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | 110 | 14 | 16 | <0.1 | 26 | 47 | - | - | - |
| C10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | - | 46 | 9.1 | 43 | 5.7 | 9.7 | 69 | - | - | - |
| C10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | - | - | - | - | 3.8 | - | - | - | - | - |
| D1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.7 | 0.1 | 24.6 | Floor | Final | Normal | - | 64 | 8.2 | 7.2 | <0.1 | 23 | 23 | - | - | - |
| D2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | 47 | 5.4 | 8 | <0.1 | 15 | 43 | - | - | - |
| D3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | 100 | 13 | 9.2 | <0.1 | 40 | 46 | - | - | - |
| D4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.4 | 0.1 | 24.3 | Floor | Final | Normal | - | 150 | 20 | 7.3 | <0.1 | 70 | 42 | - | - | - |
| D4 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.4 | 0.1 | 24.3 | Floor | Final | Normal | <1 | - | - | - | - | - | - | - | - | - |
| D5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.5 | 0.1 | 24.4 | Floor | Final | Normal | - | 110 | 16 | 6.2 | <0.1 | 46 | 25 | - | - | - |
| D6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | 88 | 12 | 5.3 | <0.1 | 21 | 20 | - | - | - |
| D7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.7 | 0.1 | 24.6 | Floor | Final | Normal | - | 110 | 17 | 27 | <0.1 | 28 | 79 | - | - | - |
| D8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | 190 | 23 | <5 | <0.1 | 60 | 42 | - | - | - |
| D8 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | <1 | - | - | - | - | - | - | - | - | - |
| D9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | 110 | 20 | 50 | <0.1 | 28 | 120 | - | - | - |
| D10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | 38 | 18 | 50 | 0.1 | 13 | 230 | - | - | - |
| D10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | - | - | - | 0.1 | - | - | - | - | - |
| QC116 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Duplicate sample of D10 | - | 47 | 18 | 54 | 0.1 | 16 | 210 | - | - | - |
| QC117 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Duplicate sample of D10 | - | 81 | 22 | 34 | <0.1 | 27 | 120 | - | - | - |
| QC117 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Triplicate sample of D10 | - | 41 | 13 | 31 | <0.1 | 11 | 100 | - | - | - |
| E1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.1 | 0.1 | 25 | Floor | Final | Normal | - | 71 | 11 | 12 | <0.1 | 38 | 45 | - | - | - |
| E2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | 130 | 20 | 5.8 | <0.1 | 95 | 53 | - | - | - |
| E2 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | <1 | - | - | - | - | - | - | - | - | - |
| E3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | 66 | 19 | 30 | <0.1 | 34 | 78 | - | - | - |
| E4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | 130 | 15 | 14 | <0.1 | 43 | 48 | - | - | - |
| E4 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | <1 | - | - | - | - | - | - | - | - | - |
| E5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | - | 73 | 14 | 10 | <0.1 | 21 | 25 | - | - | - |
| QC110 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Duplicate sample of E5 | - | 67 | 7.1 | <5 | <0.1 | 20 | 16 | - | - | - |
| QC111 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Duplicate sample of E5 | - | 68 | 5.9 | <5 | <0.1 | 18 | 15 | - | - | - |
| QC111 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Triplicate sample of E5 | - | 38 | 7 | 8 | <0.1 | 13 | 15 | - | - | - |
| E6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | - | 120 | 22 | <5 | <0.1 | 35 | 26 | - | - | - |
| E7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | - | 120 | 20 | 12 | <0.1 | 31 | 44 | - | - | - |
| E8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | - | 91 | 15 | 11 | <0.1 | 26 | 41 | - | - | - |
| E9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | 38 | 7.4 | 10 | <0.1 | 7.8 | 30 | - | - | - |

## C.1.1 Chemical Results - Final Validation Samples

| | | | | | | | | | | | Metals | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Chromium (hexavalent) | Chromium (Total) | Copper | Lead | Mercury | Nickel | Zinc | Chlorpyrifos-methyl | Demeton-S | Ethoprop |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 1 | 2 | 5 | 5 | 0.1 | 2 | 5 | 0.05 | 0.2 | 0.2 |
| Remediation Criteria | | | | | | | | | | | 100 | 12000 (Note 2) | 6000 | 300 | 40 | 400 | 7400 | - | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Ground Surface Elevation at Sample Location (m AHD)** | **Sample Depth (m bgs)** | **Sample Depth (m AHD)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | | |
| E10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | 86 | 17 | 14 | <0.1 | 20 | 50 | - | - | - |
| F1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.5 | 0.1 | 25.4 | Floor | Final | Normal | - | 74 | 9.6 | 6.2 | <0.1 | 20 | 34 | - | - | - |
| F2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | 83 | 26 | 5.7 | <0.1 | 35 | 36 | - | - | - |
| F3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | 57 | 8.1 | <5 | <0.1 | 27 | 21 | - | - | - |
| F4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | 69 | 9.2 | 6.3 | <0.1 | 29 | 23 | - | - | - |
| F5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | 61 | 13 | 20 | <0.1 | 22 | 34 | - | - | - |
| F6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.4 | 0.1 | 25.3 | Floor | Final | Normal | - | 79 | 8.1 | <5 | <0.1 | 24 | 21 | - | - | - |
| F7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | 91 | 16 | 13 | <0.1 | 25 | 34 | - | - | - |
| F8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | 100 | 16 | 77 | <0.1 | 28 | 50 | - | - | - |
| F9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.4 | 0.1 | 25.3 | Floor | Final | Normal | - | 62 | 13 | 16 | <0.1 | 16 | 43 | - | - | - |
| F10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | 150 | 22 | 8.2 | <0.1 | 34 | 40 | - | - | - |
| F10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | <1 | - | - | - | - | - | - | - | - | - |
| G1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | 53 | 8.8 | 10 | <0.1 | 25 | 36 | - | - | - |
| G2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.6 | 0.1 | 25.5 | Floor | Final | Normal | - | 89 | 16 | <5 | <0.1 | 44 | 31 | - | - | - |
| G3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | 130 | 56 | <5 | <0.1 | 39 | 38 | - | - | - |
| G3 | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | <1 | - | - | - | - | - | - | - | - | - |
| G4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | 88 | 19 | 22 | <0.1 | 39 | 54 | - | - | - |
| G5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | 70 | 10 | 8.6 | <0.1 | 26 | 35 | - | - | - |
| G6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | 84 | 17 | 23 | <0.1 | 31 | 69 | - | - | - |
| G7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | 91 | 23 | 14 | <0.1 | 30 | 47 | - | - | - |
| QC112 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Duplicate sample of G7 | - | 100 | 20 | 11 | <0.1 | 37 | 63 | - | - | - |
| QC113 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Duplicate sample of G7 | - | 87 | 25 | 11 | <0.1 | 27 | 45 | - | - | - |
| QC113 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Triplicate sample of G7 | - | 48 | 25 | 7 | <0.1 | 15 | 25 | - | - | - |
| G8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | 110 | 22 | 6.7 | <0.1 | 25 | 31 | - | - | - |
| G9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | 130 | 34 | 7.5 | <0.1 | 29 | 36 | - | - | - |
| G10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | 140 | 16 | <5 | <0.1 | 41 | 32 | - | - | - |
| G10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | <1 | - | - | - | - | - | - | - | - | - |
| H1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.3 | 0.1 | 26.2 | Floor | Final | Normal | - | 85 | 18 | 21 | <0.1 | 36 | 350 | - | - | - |
| QC118 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Duplicate sample of H1 | - | 73 | 14 | 13 | <0.1 | 36 | 46 | - | - | - |
| QC119 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Duplicate sample of H1 | - | 88 | 16 | 12 | <0.1 | 44 | 50 | - | - | - |
| QC119 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Triplicate sample of H1 | - | 35 | 11 | 18 | <0.1 | 17 | 87 | - | - | - |
| H2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | 41 | 12 | 5.4 | <0.1 | 26 | 90 | - | - | - |
| H3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.1 | 0.1 | 26 | Floor | Final | Normal | - | 43 | 8 | 6.8 | <0.1 | 21 | 33 | - | - | - |
| H4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | 50 | 9.3 | 16 | <0.1 | 28 | 50 | - | - | - |
| H5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | 71 | 11 | 9.1 | <0.1 | 33 | 29 | - | - | - |
| H6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | 76 | 13 | 68 | 0.1 | 26 | 110 | - | - | - |
| H7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | 74 | 9.4 | 8.9 | <0.1 | 20 | 32 | - | - | - |
| H8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.2 | 0.1 | 26.1 | Floor | Final | Normal | - | 87 | 14 | 9.7 | 0.1 | 21 | 28 | - | - | - |
| H9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.2 | 0.1 | 26.1 | Floor | Final | Normal | - | 130 | 18 | 13 | <0.1 | 29 | 48 | - | - | - |
| QC114 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | - | 160 | 17 | <5 | <0.1 | 32 | 34 | - | - | - |
| QC114 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | <1 | - | - | - | - | - | - | - | - | - |
| QC115 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | - | 140 | 15 | 9.4 | <0.1 | 33 | 46 | - | - | - |
| QC115 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Triplicate sampleof H9 | - | 85 | 14 | <5 | <0.1 | 19 | 18 | - | - | - |
| H10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.8 | 0.1 | 26.7 | Floor | Final | Normal | - | 180 | 27 | 13 | <0.1 | 61 | 61 | - | - | - |
| H10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26.8 | 0.1 | 26.7 | Floor | Final | Normal | <1 | - | - | - | - | - | - | - | - | - |
| TR01_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.55 | 24.65 | Trench | Final | Normal | - | 71 | 11 | <5 | <0.1 | 30 | 19 | - | - | - |
| TR02_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.35 | 24.85 | Trench | Final | Normal | - | 77 | 12 | 5.1 | <0.1 | 32 | 19 | - | - | - |
| TR03_TRENCH FLOOR_230921 | 21/09/2023 | Trench | Natural Ground | Floor | 25.2 | 0.6 | 24.6 | Trench | Final | Normal | - | 67 | 15 | 13 | <0.1 | 37 | 29 | - | - | - |
| QC14_230921 | 21/09/2023 | Trench DUP | Natural Ground | Floor | 25.1 | 0.6 | 24.5 | Trench | Final | Duplicate sample of TR03_TRENCH FLOOR_2309 | - | 130 | 21 | 5.2 | <0.1 | 72 | 42 | - | - | - |
| QC15_230921 | 21/09/2023 | Trench TRIP | Natural Ground | Floor | 25.2 | 0.6 | 24.6 | Trench | Final | Triplicate sample of TR03_TRENCHFLOOR_23092 | - | 58 | 11 | <5 | <0.1 | 36 | 16 | - | - | - |
| TR04_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.25 | 24.95 | Trench | Final | Normal | - | 130 | 20 | <5 | <0.1 | 65 | 34 | - | - | - |
| TR05_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.25 | 24.95 | Trench | Final | Normal | - | 120 | 18 | 5.3 | <0.1 | 60 | 30 | - | - | - |
| TR06_TRENCH FLOOR_230921 | 21/09/2023 | Trench | Natural Ground | Floor | 25.2 | 0.5 | 24.7 | Trench | Final | Normal | - | 77 | 15 | 13 | <0.1 | 35 | 59 | - | - | - |
| T01_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.55 | 23.75 | Trench | Final | Normal (Sample ID used by lab is TS01_B) | - | 86 | 23 | 61 | <0.1 | 30 | 130 | - | - | - |
| T01_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.225 | 24.075 | Trench | Final | Normal (Sample ID used by lab is TS01_W1) | - | 96 | 14 | 19 | <0.1 | 19 | 45 | - | - | - |
| T01_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.22 | 24.08 | Trench | Final | Normal (Sample ID used by lab is TS01_W2) | - | 110 | 22 | <5 | <0.1 | 52 | 35 | - | - | - |
| T02_B | 18/10/2023 | Trench | Natural Ground | Floor | 24 | 0.5 | 23.5 | Trench | Final | Normal (Sample ID used by lab is TS02_B) | - | 71 | 20 | 26 | <0.1 | 21 | 68 | - | - | - |
| T02_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24 | 0.25 | 23.75 | Trench | Final | Normal (Sample ID used by lab is TS02_W1) | - | 81 | 10 | <5 | <0.1 | 18 | 23 | - | - | - |
| T02_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24 | 0.3 | 23.7 | Trench | Final | Normal (Sample ID used by lab is TS02_W2) | - | 100 | 20 | <5 | <0.1 | 48 | 30 | - | - | - |
| T03_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS03_B) | - | 78 | 17 | <5 | <0.1 | 25 | 23 | - | - | - |
| QC101 | 18/10/2023 | Trench DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Trench | Final | Duplicate sample of TS03_B | - | 97 | 20 | <5 | <0.1 | 33 | 31 | - | - | - |

## C.1.1 Chemical Results - Final Validation Samples

| | | | | | | | | | | | Metals | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Chromium (hexavalent) | Chromium (Total) | Copper | Lead | Mercury | Nickel | Zinc | Chlorpyrifos-methyl | Demeton-S | Ethoprop |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 1 | 2 | 5 | 5 | 0.1 | 2 | 5 | 0.05 | 0.2 | 0.2 |
| Remediation Criteria | | | | | | | | | | | 100 | 12000 (Note 2) | 6000 | 300 | 40 | 400 | 7400 | - | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Ground Surface Elevation at Sample Location (m AHD)** | **Sample Depth (m bgs)** | **Sample Depth (m AHD)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | | |
| QC102 | 18/10/2023 | Trench TRIP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Trench | Final | Triplicate sample of TS03_B | - | 96 | 16 | <5 | <0.1 | 25 | 27 | - | - | - |
| T03_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.35 | 23.55 | Trench | Final | Normal (Sample ID used by lab is TS03_W1) | - | 79 | 12 | <5 | <0.1 | 24 | 27 | - | - | - |
| T03_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.35 | 23.55 | Trench | Final | Normal (Sample ID used by lab is TS03_W2) | - | 120 | 23 | 6.4 | <0.1 | 44 | 67 | - | - | - |
| T04_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.6 | 0.55 | 23.05 | Trench | Final | Normal (Sample ID used by lab is TS04_B) | - | 120 | 24 | <5 | <0.1 | 49 | 30 | - | - | - |
| T04_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.6 | 0.32 | 23.28 | Trench | Final | Normal (Sample ID used by lab is TS04_W1) | - | 45 | 6.6 | <5 | <0.1 | 13 | 18 | - | - | - |
| T04_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.6 | 0.35 | 23.25 | Trench | Final | Normal (Sample ID used by lab is TS04_W2) | - | 130 | 11 | 13 | <0.1 | 26 | 47 | - | - | - |
| T05_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.55 | 22.85 | Trench | Final | Normal (Sample ID used by lab is TS05_B) | - | 95 | 19 | <5 | <0.1 | 29 | 26 | - | - | - |
| T05_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.4 | 23 | Trench | Final | Normal (Sample ID used by lab is TS05_W1) | - | 110 | 13 | <5 | <0.1 | 24 | 24 | - | - | - |
| QC103 | 18/10/2023 | Trench DUP | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Duplicate sample of TS05_W1 | - | 62 | 11 | 10 | <0.1 | 20 | 30 | - | - | - |
| QC104 | 18/10/2023 | Trench TRIP | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Triplicate sampleof TS05_W1 | - | 71 | 11 | 17 | <0.1 | 22 | 45 | - | - | - |
| T05_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS05_W2) | - | 96 | 17 | 25 | <0.1 | 28 | 43 | - | - | - |
| T06_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.5 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS06_B) | - | 79 | 13 | 7.8 | <0.1 | 22 | 24 | - | - | - |
| T06_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS06_W1) | - | 92 | 12 | <5 | <0.1 | 19 | 14 | - | - | - |
| T06_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS06_W2) | - | 68 | 11 | <5 | <0.1 | 17 | 12 | - | - | - |
| T07_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.5 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS07_B) | - | 47 | 12 | <5 | <0.1 | 27 | 15 | - | - | - |
| T07_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS07_W1) | - | 57 | 13 | 23 | <0.1 | 25 | 48 | - | - | - |
| T07_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS07_W2) | - | 67 | 15 | 5.5 | <0.1 | 29 | 16 | - | - | - |
| T08_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.55 | 22.85 | Trench | Final | Normal (Sample ID used by lab is TS08_B) | - | 55 | 13 | <5 | <0.1 | 27 | 19 | - | - | - |
| T08_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS08_W1) | - | 100 | 25 | 7 | <0.1 | 74 | 81 | - | - | - |
| T08_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.21 | 23.19 | Trench | Final | Normal (Sample ID used by lab is TS08_W2) | - | 92 | 16 | 5.7 | <0.1 | 38 | 24 | - | - | - |
| T09_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.6 | 22.8 | Trench | Final | Normal (Sample ID used by lab is TS09_B) | - | 85 | 18 | <5 | <0.1 | 40 | 24 | - | - | - |
| T09_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS09_W1) | - | 140 | 27 | 17 | <0.1 | 57 | 76 | - | - | - |
| T09_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.32 | 23.08 | Trench | Final | Normal (Sample ID used by lab is TS09_W2) | - | 110 | 19 | <5 | <0.1 | 57 | 20 | - | - | - |
| T10_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.5 | 0.6 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS10_B) | - | 73 | 17 | <5 | <0.1 | 37 | 30 | - | - | - |
| T10_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.5 | 0.3 | 23.2 | Trench | Final | Normal (Sample ID used by lab is TS10_W1) | - | 100 | 21 | <5 | <0.1 | 50 | 31 | - | - | - |
| T10_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.5 | 0.3 | 23.2 | Trench | Final | Normal (Sample ID used by lab is TS10_W2) | - | 90 | 21 | 18 | <0.1 | 39 | 63 | - | - | - |
| T11_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.7 | 0.6 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS11_B) | - | 89 | 21 | <5 | <0.1 | 43 | 35 | - | - | - |
| T11_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.7 | 0.3 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS11_W1) | - | 120 | 20 | <5 | <0.1 | 35 | 27 | - | - | - |
| T11_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.7 | 0.3 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS11_W2) | - | 99 | 23 | <5 | <0.1 | 34 | 30 | - | - | - |
| T12_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.6 | 23.3 | Trench | Final | Normal (Sample ID used by lab is TS12_B) | - | 120 | 24 | <5 | <0.1 | 55 | 40 | - | - | - |
| T12_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.3 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS12_W1) | - | 110 | 21 | <5 | <0.1 | 48 | 31 | - | - | - |
| T12_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.3 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS12_W2) | - | 130 | 22 | <5 | <0.1 | 57 | 30 | - | - | - |
| T13_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.6 | 23.7 | Trench | Final | Normal (Sample ID used by lab is TS13_B) | - | 120 | 22 | 59 | <0.1 | 45 | 70 | - | - | - |
| T13_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.3 | 24 | Trench | Final | Normal (Sample ID used by lab is TS13_W1) | - | 130 | 24 | <5 | <0.1 | 54 | 36 | - | - | - |
| T13_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.3 | 24 | Trench | Final | Normal (Sample ID used by lab is TS13_W2) | - | 150 | 25 | 5.1 | <0.1 | 55 | 36 | - | - | - |
| T14_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.9 | 0.6 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS14_B) | - | 130 | 23 | <5 | <0.1 | 50 | 33 | - | - | - |
| T14_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.9 | 0.3 | 24.6 | Trench | Final | Normal (Sample ID used by lab is TS14_W1) | - | 150 | 21 | <5 | <0.1 | 50 | 28 | - | - | - |
| T14_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.9 | 0.3 | 24.6 | Trench | Final | Normal (Sample ID used by lab is TS14_W2) | - | 160 | 21 | 7.5 | <0.1 | 49 | 32 | - | - | - |
| T15_B | 18/10/2023 | Trench | Natural Ground | Floor | 25 | 0.6 | 24.4 | Trench | Final | Normal (Sample ID used by lab is TS15_B) | - | 170 | 23 | 5.1 | <0.1 | 49 | 35 | - | - | - |
| T15_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 25 | 0.3 | 24.7 | Trench | Final | Normal (Sample ID used by lab is TS15_W1) | - | 82 | 12 | 27 | <0.1 | 22 | 48 | - | - | - |
| T15_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 25 | 0.3 | 24.7 | Trench | Final | Normal (Sample ID used by lab is TS15_W2) | - | 130 | 22 | 5.7 | <0.1 | 48 | 36 | - | - | - |
| T16_B | 18/10/2023 | Trench | Natural Ground | Floor | 25.7 | 0.6 | 25.1 | Trench | Final | Normal (Sample ID used by lab is TS16_B) | - | 150 | 24 | <5 | <0.1 | 57 | 36 | - | - | - |
| T16_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 25.7 | 0.3 | 25.4 | Trench | Final | Normal (Sample ID used by lab is TS16_W1) | - | 150 | 24 | <5 | <0.1 | 59 | 32 | - | - | - |
| T16_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 25.7 | 0.3 | 25.4 | Trench | Final | Normal (Sample ID used by lab is TS16_W2) | - | 140 | 16 | 21 | <0.1 | 40 | 110 | - | - | - |
| T17-B | 26/10/2023 | Trench | Natural Ground | Floor | 23.8 | 0.55 | 23.25 | Trench | Final | Normal | - | 190 | 32 | 5.5 | <0.1 | 72 | 54 | - | - | - |
| T17-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 23.8 | 0.15 | 23.65 | Trench | Final | Normal | - | 120 | 10 | 7.3 | <0.1 | 20 | 19 | - | - | - |
| T17-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 23.8 | 0.15 | 23.65 | Trench | Final | Normal | - | 160 | 28 | 13 | <0.1 | 50 | 59 | - | - | - |
| T18-B | 26/10/2023 | Trench | Natural Ground | Floor | 24 | 0.55 | 23.45 | Trench | Final | Normal | - | 220 | 31 | 11 | <0.1 | 73 | 53 | - | - | - |
| T18-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24 | 0.6 | 23.4 | Trench | Final | Normal | <1 | - | - | - | - | - | - | - | - | - |
| T18-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.35 | 23.65 | Trench | Final | Normal | - | 160 | 20 | 39 | <0.1 | 37 | 48 | - | - | - |
| T18-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.35 | 23.65 | Trench | Final | Normal | - | 140 | 21 | 7.6 | <0.1 | 53 | 31 | - | - | - |
| T19-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.4 | 23.9 | Trench | Final | Normal | - | 150 | 24 | 6.3 | <0.1 | 51 | 43 | - | - | - |
| T19-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.2 | 24.1 | Trench | Final | Normal | - | 140 | 13 | 9.2 | <0.1 | 28 | 36 | - | - | - |
| T19-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.25 | 24.05 | Trench | Final | Normal | - | 170 | 40 | 90 | 0.1 | 57 | 610 | - | - | - |
| T20-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.55 | 23.55 | Trench | Final | Normal | - | 140 | 20 | <5 | <0.1 | 38 | 36 | - | - | - |
| T20-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal | - | 160 | 23 | 35 | <0.1 | 30 | 76 | - | - | - |
| T20-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.15 | 23.95 | Trench | Final | Normal | - | 76 | 15 | 93 | <0.1 | 22 | 110 | - | - | - |
| T21-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.2 | 0.6 | 23.6 | Trench | Final | Normal | - | 220 | 34 | 5.5 | <0.1 | 83 | 53 | - | - | - |
| T21-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24.2 | 0.6 | 23.6 | Trench | Final | Normal | <1 | - | - | - | - | - | - | - | - | - |
| T21-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.2 | 0.25 | 23.95 | Trench | Final | Normal | - | 170 | 22 | 5.1 | <0.1 | 51 | 33 | - | - | - |
| T21-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.2 | 0.3 | 23.9 | Trench | Final | Normal | - | 170 | 22 | <5 | <0.1 | 46 | 26 | - | - | - |

## C.1.1 Chemical Results - Final Validation Samples

| | | | | | | | | | | | Metals | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Chromium (hexavalent) | Chromium (Total) | Copper | Lead | Mercury | Nickel | Zinc | Chlorpyrifos-methyl | Demeton-S | Ethoprop |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 1 | 2 | 5 | 5 | 0.1 | 2 | 5 | 0.05 | 0.2 | 0.2 |
| Remediation Criteria | | | | | | | | | | | 100 | 12000 (Note 2) | 6000 | 300 | 40 | 400 | 7400 | - | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Ground Surface Elevation at Sample Location (m AHD)** | **Sample Depth (m bgs)** | **Sample Depth (m AHD)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | | |
| T22-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.38 | 24.02 | Trench | Final | Normal | - | 160 | 22 | <5 | <0.1 | 47 | 39 | - | - | - |
| T22-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24.4 | 0.38 | 24.02 | Trench | Final | Normal | <1 | - | - | - | - | - | - | - | - | - |
| T22-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | - | 150 | 19 | 17 | <0.1 | 44 | 53 | - | - | - |
| T22-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | - | 110 | 9.9 | <5 | <0.1 | 21 | 22 | - | - | - |
| T22_F_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.5 | 23.9 | Trench | Final | Normal | - | 130 | 23 | <5 | <0.1 | 49 | 35 | - | - | - |
| T22_WA_231016 | 16/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.15 | 24.25 | Trench | Final | Normal | - | 140 | 19 | <5 | <0.1 | 44 | 25 | - | - | - |
| T22_WB_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | - | 140 | 24 | <5 | <0.1 | 49 | 33 | - | - | - |
| T23-B | 26/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal | - | 140 | 25 | <5 | <0.1 | 43 | 36 | - | - | - |
| T23-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | - | 170 | 24 | <5 | <0.1 | 45 | 32 | - | - | - |
| T23-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | - | 150 | 24 | 7.8 | <0.1 | 44 | 46 | - | - | - |
| T23_F_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal | - | 42 | 23 | 72 | <0.1 | 18 | 140 | - | - | - |
| T23_WA_231016 | 16/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.2 | 23.7 | Trench | Final | Normal | - | 110 | 12 | 5.6 | <0.1 | 19 | 22 | - | - | - |
| T23_WB_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | - | 130 | 9.7 | 5.6 | <0.1 | 22 | 21 | - | - | - |
| T24-B | 26/10/2023 | Trench | Natural Ground | Floor | 24 | 0.45 | 23.55 | Trench | Final | Normal | - | 170 | 25 | 5.6 | <0.1 | 66 | 39 | - | - | - |
| T24-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24 | 0.45 | 23.55 | Trench | Final | Normal | <1 | - | - | - | - | - | - | - | - | - |
| T24-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.15 | 23.85 | Trench | Final | Normal | - | 94 | 9.3 | <5 | <0.1 | 17 | 16 | - | - | - |
| T24-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.15 | 23.85 | Trench | Final | Normal | - | 150 | 23 | <5 | <0.1 | 49 | 28 | - | - | - |
| T25_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.6 | 0.6 | 24 | Trench | Final | Normal (Sample ID used by lab is TS25_B) | - | 68 | 9.6 | 5.2 | <0.1 | 26 | 16 | - | - | - |
| T25_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.6 | 0.3 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS25_W1) | - | 96 | 16 | 5.5 | <0.1 | 46 | 25 | - | - | - |
| T25_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.6 | 0.3 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS25_W2) | - | 89 | 8.6 | <5 | <0.1 | 25 | 14 | - | - | - |
| T26_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.45 | 23.65 | Trench | Final | Normal (Sample ID used by lab is TS26_B) | - | 90 | 15 | 6.9 | <0.1 | 40 | 36 | - | - | - |
| T26_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS26_W1) | - | 63 | 5.5 | <5 | <0.1 | 18 | 14 | - | - | - |
| T26_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS26_W2) | - | 39 | 9.4 | 27 | <0.1 | 19 | 50 | - | - | - |
| T27_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.5 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS27_B) | - | 100 | 18 | <5 | <0.1 | 43 | 25 | - | - | - |
| T27_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.19 | 23.91 | Trench | Final | Normal (Sample ID used by lab is TS27_W1) | - | 97 | 15 | 5.2 | <0.1 | 34 | 20 | - | - | - |
| T27_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS27_W2) | - | 96 | 14 | <5 | <0.1 | 29 | 20 | - | - | - |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

## C.1.1 Chemical Results - Final Validation Samples

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | Fenitrothion | Fensulfothion | Malathion | Merphos | Omethoate | Pyrazophos | Terbufos | Tokuthion | Azinophos methyl | Bolstar (Sulprofos) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.2 | 0.2 | 0.05 | 0.2 | 2 | 0.2 | 0.2 | 0.2 | 0.05 | 0.2 |
| Remediation Criteria | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - |
| HS01_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.7 | 27 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS01_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS01_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.75 | 26.95 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS02_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.7 | 27 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS02_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS02_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.85 | 26.85 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS03_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.8 | 26.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS03_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS03_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS04_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.85 | 26.85 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS04_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS04_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS05_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS05_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS05_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.95 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS06_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 1 | 26.7 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS06_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.2 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS06_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS07_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.95 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS07_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.2 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS07_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC03_230912 | 12/09/2023 | Headfort Street Boundary DUP | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Duplicate sample of HS07_NW_230912 | - | - | - | - | - | - | - | - | - | - |
| QC04_230912 | 12/09/2023 | Headfort Street Boundary TRIP | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Triplicate sample of HS07_NW_230912 | - | - | <0.05 | - | - | - | - | - | <0.05 | - |
| HS08_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS08_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS08_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1 | 26.7 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS09_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 26.7 | 0.45 | 26.25 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS09_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 26.7 | 0.8 | 25.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS09_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 26.7 | 0.55 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.2 | 0.4 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.2 | 1 | 26.2 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC01-230918 | 18/09/2023 | Headfort Street Boundary DUP | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Duplicate sample of HS10_NW_230918 | - | - | - | - | - | - | - | - | - | - |
| QC02_230918 | 18/09/2023 | Headfort Street Boundary TRIP | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Triplicate sample of HS10_NW_230918 | - | - | - | - | - | - | - | - | - | - |
| HS10_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.2 | 0.1 | 27.1 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10A_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.3 | 0.4 | 26.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10A_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.3 | 1 | 26.3 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10A_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.3 | 0.7 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10A_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.3 | 0.1 | 27.2 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10B_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.2 | 0.3 | 26.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10B_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.2 | 1 | 26.2 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10B_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10B_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.2 | 0.1 | 27.1 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS11_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.8 | 0.9 | 26.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS11_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.8 | 1.1 | 26.7 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS11_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.8 | 0.95 | 26.85 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS12_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.5 | 0.95 | 26.55 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS12_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.5 | 1.1 | 26.4 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS12_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.5 | 1 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA01_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 27.1 | 0.05 | 27.05 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA01_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 27.1 | 0.2 | 26.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA01_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 27.1 | 0.25 | 26.85 | Boundary | Final | Normal (Sample ID use by lab is HAS01_NW_2309 | - | - | - | - | - | - | - | - | - | - |
| HSA02_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA02_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA02_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA02_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26.8 | 0.2 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA02_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26.8 | 0.25 | 26.55 | Boundary | Final | Normal (Sample ID use by lab is HAS02_NW_2309 | - | - | - | - | - | - | - | - | - | - |
| HSA03_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA03_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA03_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA03_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26.2 | 0.2 | 26 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | Fenitrothion | Fensulfothion | Malathion | Merphos | Omethoate | Pyrazophos | Terbufos | Tokuthion | Azinophos methyl | Bolstar (Sulprofos) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | | | | | | | | | | | 0.2 | 0.2 | 0.05 | 0.2 | 2 | 0.2 | 0.2 | 0.2 | 0.05 | 0.2 |
| Remediation Criteria | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - |
| HSA03_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26.2 | 0.25 | 25.95 | Boundary | Final | Normal (Sample ID use by lab is HAS03_NW_2309 | - | - | - | - | - | - | - | - | - | - |
| HSA04_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26 | 0.05 | 25.95 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA04_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26 | 0.2 | 25.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA04_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26 | 0.25 | 25.75 | Boundary | Final | Normal (Sample ID use by lab is HAS04_NW_2309 | - | - | - | - | - | - | - | - | - | - |
| HSB01_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26.7 | 0.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB01_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26.7 | 0.35 | 26.35 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB01_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26.7 | 0.5 | 26.2 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB01_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26.7 | 0.7 | 26 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB02_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26.6 | 0.1 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB02_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26.6 | 0.3 | 26.3 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB02_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26.6 | 0.4 | 26.2 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB02_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26.6 | 0.6 | 26 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB03_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26 | 0.1 | 25.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB03_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26 | 0.5 | 25.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB03_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26 | 0.6 | 25.4 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB03_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26 | 0.65 | 25.35 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB04_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 25.6 | 0.1 | 25.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB04_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 25.6 | 0.5 | 25.1 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB04_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 25.6 | 0.6 | 25 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB04_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 25.6 | 0.7 | 24.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB05_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 25.1 | 0.1 | 25 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB05_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 25.1 | 0.3 | 24.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB05_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 25.1 | 0.45 | 24.65 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB06_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 24.5 | 0.1 | 24.4 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB06_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC01_DUP_231016 | 16/10/2023 | Newdegate St Boundary DUP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Duplicate sampleof HSB06_ASH_231016 | - | - | - | - | - | - | - | - | - | - |
| QC02_Trip | 16/10/2023 | Newdegate St Boundary TRIP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Triplicate sample of HSB06_ASH_231016 | - | - | - | - | - | - | - | - | - | - |
| QC03_DUP_231016 | 16/10/2023 | Newdegate St Boundary DUP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Duplicate sampleof HSB06_ASH_231016 | - | - | - | - | - | - | - | - | - | - |
| QC04_Trip | 16/10/2023 | Newdegate St Boundary TRIP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Triplicate sample of HSB06_ASH_231016 | - | - | - | - | - | - | - | - | - | - |
| HSB06_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 24.5 | 0.7 | 23.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB06_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 24.5 | 0.9 | 23.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB07 | 26/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 24.2 | 0.1 | 24.1 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB08 | 18/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 23.5 | 0.2 | 23.3 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB18 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.4 | 0.15 | 23.25 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB19 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.5 | 0.15 | 23.35 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB20 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.6 | 0.15 | 23.45 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB21 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.8 | 0.15 | 23.65 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB22 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.8 | 0.15 | 23.65 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB23 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB24 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB25 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB26 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB27 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC101 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Duplicate of HSB27 | - | - | - | - | - | - | - | - | - | - |
| QC102 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Triplicate of HSB27 | - | - | - | - | - | - | - | - | - | - |
| DW-B1 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.7 | 0.3 | 24.4 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| DW-B2 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.7 | 0.3 | 24.4 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| DW-B3 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.5 | 0.3 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| DW-B4 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.5 | 0.3 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC106 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Duplicate sample of A1 | - | - | - | - | - | - | - | - | - | - |
| QC107 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Duplicate sample of A1 | - | - | - | - | - | - | - | - | - | - |
| QC107 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Triplicate sample of A1 | - | - | - | - | - | - | - | - | - | - |
| A2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.4 | 0.1 | 23.3 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.5 | 0.1 | 23.4 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.6 | 0.1 | 23.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.8 | 0.1 | 23.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.8 | 0.1 | 23.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | Fenitrothion | Fensulfothion | Malathion | Merphos | Omethoate | Pyrazophos | Terbufos | Tokuthion | Azinophos methyl | Bolstar (Sulprofos) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | | | | | | | | | | | 0.2 | 0.2 | 0.05 | 0.2 | 2 | 0.2 | 0.2 | 0.2 | 0.05 | 0.2 |
| Remediation Criteria | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - |
| A10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B1 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.1 | 0.1 | 24 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.1 | 0.1 | 24 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC108 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Duplicate sample of C3 | - | - | - | - | - | - | - | - | - | - |
| QC109 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Duplicate sample of C3 | - | - | - | - | - | - | - | - | - | - |
| QC109 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Triplicate sample of C3 | - | - | - | - | - | - | - | - | - | - |
| C4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C7 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC120 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Duplicate sample of C7 | - | - | - | - | - | - | - | - | - | - |
| QC121 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Duplicate sample of C7 | - | - | - | - | - | - | - | - | - | - |
| QC121 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Triplicate sample of C7 | - | - | - | - | - | - | - | - | - | - |
| C8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.7 | 0.1 | 24.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.4 | 0.1 | 24.3 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D4 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.4 | 0.1 | 24.3 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.5 | 0.1 | 24.4 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.7 | 0.1 | 24.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D8 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC116 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Duplicate sample of D10 | - | - | - | - | - | - | - | - | - | - |
| QC117 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Duplicate sample of D10 | - | - | - | - | - | - | - | - | - | - |
| QC117 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Triplicate sample of D10 | - | - | - | - | - | - | - | - | - | - |
| E1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.1 | 0.1 | 25 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E2 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E4 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC110 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Duplicate sample of E5 | - | - | - | - | - | - | - | - | - | - |
| QC111 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Duplicate sample of E5 | - | - | - | - | - | - | - | - | - | - |
| QC111 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Triplicate sample of E5 | - | - | - | - | - | - | - | - | - | - |
| E6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | Fenitrothion | Fensulfothion | Malathion | Merphos | Omethoate | Pyrazophos | Terbufos | Tokuthion | Azinophos methyl | Bolstar (Sulprofos) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | | | | | | | | | | | 0.2 | 0.2 | 0.05 | 0.2 | 2 | 0.2 | 0.2 | 0.2 | 0.05 | 0.2 |
| Remediation Criteria | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - |
| E10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.5 | 0.1 | 25.4 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.4 | 0.1 | 25.3 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.4 | 0.1 | 25.3 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.6 | 0.1 | 25.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G3 | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC112 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Duplicate sample of G7 | - | - | - | - | - | - | - | - | - | - |
| QC113 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Duplicate sample of G7 | - | - | - | - | - | - | - | - | - | - |
| QC113 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Triplicate sample of G7 | - | - | - | - | - | - | - | - | - | - |
| G8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.3 | 0.1 | 26.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC118 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Duplicate sample of H1 | - | - | - | - | - | - | - | - | - | - |
| QC119 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Duplicate sample of H1 | - | - | - | - | - | - | - | - | - | - |
| QC119 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Triplicate sample of H1 | - | - | - | - | - | - | - | - | - | - |
| H2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.1 | 0.1 | 26 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.2 | 0.1 | 26.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.2 | 0.1 | 26.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC114 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | - | - | - | - | - | - | - | - | - | - |
| QC114 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | - | - | - | - | - | - | - | - | - | - |
| QC115 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | - | - | - | - | - | - | - | - | - | - |
| QC115 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Triplicate sampleof H9 | - | - | - | - | - | - | - | - | - | - |
| H10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.8 | 0.1 | 26.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26.8 | 0.1 | 26.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| TR01_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.55 | 24.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| TR02_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.35 | 24.85 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| TR03_TRENCH FLOOR_230921 | 21/09/2023 | Trench | Natural Ground | Floor | 25.2 | 0.6 | 24.6 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC14_230921 | 21/09/2023 | Trench DUP | Natural Ground | Floor | 25.1 | 0.6 | 24.5 | Trench | Final | Duplicate sample of TR03_TRENCH FLOOR_2309 | - | - | - | - | - | - | - | - | - | - |
| QC15_230921 | 21/09/2023 | Trench TRIP | Natural Ground | Floor | 25.2 | 0.6 | 24.6 | Trench | Final | Triplicate sample of TR03_TRENCHFLOOR_23092 | - | - | - | - | - | - | - | - | - | - |
| TR04_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.25 | 24.95 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| TR05_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.25 | 24.95 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| TR06_TRENCH FLOOR_230921 | 21/09/2023 | Trench | Natural Ground | Floor | 25.2 | 0.5 | 24.7 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T01_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.55 | 23.75 | Trench | Final | Normal (Sample ID used by lab is TS01_B) | - | - | - | - | - | - | - | - | - | - |
| T01_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.225 | 24.075 | Trench | Final | Normal (Sample ID used by lab is TS01_W1) | - | - | - | - | - | - | - | - | - | - |
| T01_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.22 | 24.08 | Trench | Final | Normal (Sample ID used by lab is TS01_W2) | - | - | - | - | - | - | - | - | - | - |
| T02_B | 18/10/2023 | Trench | Natural Ground | Floor | 24 | 0.5 | 23.5 | Trench | Final | Normal (Sample ID used by lab is TS02_B) | - | - | - | - | - | - | - | - | - | - |
| T02_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24 | 0.25 | 23.75 | Trench | Final | Normal (Sample ID used by lab is TS02_W1) | - | - | - | - | - | - | - | - | - | - |
| T02_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24 | 0.3 | 23.7 | Trench | Final | Normal (Sample ID used by lab is TS02_W2) | - | - | - | - | - | - | - | - | - | - |
| T03_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS03_B) | - | - | - | - | - | - | - | - | - | - |
| QC101 | 18/10/2023 | Trench DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Trench | Final | Duplicate sample of TS03_B | - | - | - | - | - | - | - | - | - | - |

## C.1.1 Chemical Results - Final Validation Samples

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | Fenitrothion | Fensulfothion | Malathion | Merphos | Omethoate | Pyrazophos | Terbufos | Tokuthion | Azinophos methyl | Bolstar (Sulprofos) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.2 | 0.2 | 0.05 | 0.2 | 2 | 0.2 | 0.2 | 0.2 | 0.05 | 0.2 |
| Remediation Criteria | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - |
| QC102 | 18/10/2023 | Trench TRIP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Trench | Final | Triplicate sample of TS03_B | - | - | - | - | - | - | - | - | - | - |
| T03_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.35 | 23.55 | Trench | Final | Normal (Sample ID used by lab is TS03_W1) | - | - | - | - | - | - | - | - | - | - |
| T03_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.35 | 23.55 | Trench | Final | Normal (Sample ID used by lab is TS03_W2) | - | - | - | - | - | - | - | - | - | - |
| T04_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.6 | 0.55 | 23.05 | Trench | Final | Normal (Sample ID used by lab is TS04_B) | - | - | - | - | - | - | - | - | - | - |
| T04_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.6 | 0.32 | 23.28 | Trench | Final | Normal (Sample ID used by lab is TS04_W1) | - | - | - | - | - | - | - | - | - | - |
| T04_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.6 | 0.35 | 23.25 | Trench | Final | Normal (Sample ID used by lab is TS04_W2) | - | - | - | - | - | - | - | - | - | - |
| T05_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.55 | 22.85 | Trench | Final | Normal (Sample ID used by lab is TS05_B) | - | - | - | - | - | - | - | - | - | - |
| T05_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.4 | 23 | Trench | Final | Normal (Sample ID used by lab is TS05_W1) | - | - | - | - | - | - | - | - | - | - |
| QC103 | 18/10/2023 | Trench DUP | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Duplicate sample of TS05_W1 | - | - | - | - | - | - | - | - | - | - |
| QC104 | 18/10/2023 | Trench TRIP | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Triplicate sampleof TS05_W1 | - | - | - | - | - | - | - | - | - | - |
| T05_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS05_W2) | - | - | - | - | - | - | - | - | - | - |
| T06_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.5 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS06_B) | - | - | - | - | - | - | - | - | - | - |
| T06_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS06_W1) | - | - | - | - | - | - | - | - | - | - |
| T06_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS06_W2) | - | - | - | - | - | - | - | - | - | - |
| T07_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.5 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS07_B) | - | - | - | - | - | - | - | - | - | - |
| T07_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS07_W1) | - | - | - | - | - | - | - | - | - | - |
| T07_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS07_W2) | - | - | - | - | - | - | - | - | - | - |
| T08_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.55 | 22.85 | Trench | Final | Normal (Sample ID used by lab is TS08_B) | - | - | - | - | - | - | - | - | - | - |
| T08_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS08_W1) | - | - | - | - | - | - | - | - | - | - |
| T08_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.21 | 23.19 | Trench | Final | Normal (Sample ID used by lab is TS08_W2) | - | - | - | - | - | - | - | - | - | - |
| T09_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.6 | 22.8 | Trench | Final | Normal (Sample ID used by lab is TS09_B) | - | - | - | - | - | - | - | - | - | - |
| T09_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS09_W1) | - | - | - | - | - | - | - | - | - | - |
| T09_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.32 | 23.08 | Trench | Final | Normal (Sample ID used by lab is TS09_W2) | - | - | - | - | - | - | - | - | - | - |
| T10_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.5 | 0.6 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS10_B) | - | - | - | - | - | - | - | - | - | - |
| T10_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.5 | 0.3 | 23.2 | Trench | Final | Normal (Sample ID used by lab is TS10_W1) | - | - | - | - | - | - | - | - | - | - |
| T10_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.5 | 0.3 | 23.2 | Trench | Final | Normal (Sample ID used by lab is TS10_W2) | - | - | - | - | - | - | - | - | - | - |
| T11_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.7 | 0.6 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS11_B) | - | - | - | - | - | - | - | - | - | - |
| T11_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.7 | 0.3 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS11_W1) | - | - | - | - | - | - | - | - | - | - |
| T11_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.7 | 0.3 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS11_W2) | - | - | - | - | - | - | - | - | - | - |
| T12_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.6 | 23.3 | Trench | Final | Normal (Sample ID used by lab is TS12_B) | - | - | - | - | - | - | - | - | - | - |
| T12_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.3 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS12_W1) | - | - | - | - | - | - | - | - | - | - |
| T12_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.3 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS12_W2) | - | - | - | - | - | - | - | - | - | - |
| T13_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.6 | 23.7 | Trench | Final | Normal (Sample ID used by lab is TS13_B) | - | - | - | - | - | - | - | - | - | - |
| T13_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.3 | 24 | Trench | Final | Normal (Sample ID used by lab is TS13_W1) | - | - | - | - | - | - | - | - | - | - |
| T13_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.3 | 24 | Trench | Final | Normal (Sample ID used by lab is TS13_W2) | - | - | - | - | - | - | - | - | - | - |
| T14_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.9 | 0.6 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS14_B) | - | - | - | - | - | - | - | - | - | - |
| T14_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.9 | 0.3 | 24.6 | Trench | Final | Normal (Sample ID used by lab is TS14_W1) | - | - | - | - | - | - | - | - | - | - |
| T14_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.9 | 0.3 | 24.6 | Trench | Final | Normal (Sample ID used by lab is TS14_W2) | - | - | - | - | - | - | - | - | - | - |
| T15_B | 18/10/2023 | Trench | Natural Ground | Floor | 25 | 0.6 | 24.4 | Trench | Final | Normal (Sample ID used by lab is TS15_B) | - | - | - | - | - | - | - | - | - | - |
| T15_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 25 | 0.3 | 24.7 | Trench | Final | Normal (Sample ID used by lab is TS15_W1) | - | - | - | - | - | - | - | - | - | - |
| T15_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 25 | 0.3 | 24.7 | Trench | Final | Normal (Sample ID used by lab is TS15_W2) | - | - | - | - | - | - | - | - | - | - |
| T16_B | 18/10/2023 | Trench | Natural Ground | Floor | 25.7 | 0.6 | 25.1 | Trench | Final | Normal (Sample ID used by lab is TS16_B) | - | - | - | - | - | - | - | - | - | - |
| T16_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 25.7 | 0.3 | 25.4 | Trench | Final | Normal (Sample ID used by lab is TS16_W1) | - | - | - | - | - | - | - | - | - | - |
| T16_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 25.7 | 0.3 | 25.4 | Trench | Final | Normal (Sample ID used by lab is TS16_W2) | - | - | - | - | - | - | - | - | - | - |
| T17-B | 26/10/2023 | Trench | Natural Ground | Floor | 23.8 | 0.55 | 23.25 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T17-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 23.8 | 0.15 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T17-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 23.8 | 0.15 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T18-B | 26/10/2023 | Trench | Natural Ground | Floor | 24 | 0.55 | 23.45 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T18-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24 | 0.6 | 23.4 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T18-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.35 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T18-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.35 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T19-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.4 | 23.9 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T19-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.2 | 24.1 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T19-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.25 | 24.05 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T20-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.55 | 23.55 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T20-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T20-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.15 | 23.95 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T21-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.2 | 0.6 | 23.6 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T21-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24.2 | 0.6 | 23.6 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T21-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.2 | 0.25 | 23.95 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T21-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.2 | 0.3 | 23.9 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | Fenitrothion | Fensulfothion | Malathion | Merphos | Omethoate | Pyrazophos | Terbufos | Tokuthion | Azinophos methyl | Bolstar (Sulprofos) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | | | | | | | | | | | 0.2 | 0.2 | 0.05 | 0.2 | 2 | 0.2 | 0.2 | 0.2 | 0.05 | 0.2 |
| Remediation Criteria | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - |
| T22-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.38 | 24.02 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24.4 | 0.38 | 24.02 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22_F_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.5 | 23.9 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22_WA_231016 | 16/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.15 | 24.25 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22_WB_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23-B | 26/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23_F_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23_WA_231016 | 16/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.2 | 23.7 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23_WB_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T24-B | 26/10/2023 | Trench | Natural Ground | Floor | 24 | 0.45 | 23.55 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T24-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24 | 0.45 | 23.55 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T24-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.15 | 23.85 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T24-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.15 | 23.85 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T25_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.6 | 0.6 | 24 | Trench | Final | Normal (Sample ID used by lab is TS25_B) | - | - | - | - | - | - | - | - | - | - |
| T25_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.6 | 0.3 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS25_W1) | - | - | - | - | - | - | - | - | - | - |
| T25_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.6 | 0.3 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS25_W2) | - | - | - | - | - | - | - | - | - | - |
| T26_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.45 | 23.65 | Trench | Final | Normal (Sample ID used by lab is TS26_B) | - | - | - | - | - | - | - | - | - | - |
| T26_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS26_W1) | - | - | - | - | - | - | - | - | - | - |
| T26_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS26_W2) | - | - | - | - | - | - | - | - | - | - |
| T27_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.5 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS27_B) | - | - | - | - | - | - | - | - | - | - |
| T27_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.19 | 23.91 | Trench | Final | Normal (Sample ID used by lab is TS27_W1) | - | - | - | - | - | - | - | - | - | - |
| T27_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS27_W2) | - | - | - | - | - | - | - | - | - | - |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

## C.1.1 Chemical Results - Final Validation Samples

| | | | | | | | | | | | Organophosphorous Pesticides | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Bromophos-ethyl | Carbophenothion | Chlorfenvinphos | Chlorpyrifos | Coumaphos | Demeton-O | Diazinon | Dichlorvos | Disulfoton | Dimethoate |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | | | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 2 | 0.2 | 0.05 | 0.05 | 0.2 | 0.05 |
| Remediation Criteria | | | | | | | | | | | - | - | - | 160 | - | - | - | - | - | - |
| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | | | | | | | | | | |
| HS01_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.7 | 27 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS01_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS01_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.75 | 26.95 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS02_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.7 | 27 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS02_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS02_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.85 | 26.85 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS03_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.8 | 26.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS03_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS03_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS04_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.85 | 26.85 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS04_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS04_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS05_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS05_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS05_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.95 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS06_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 1 | 26.7 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS06_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.2 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS06_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS07_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.95 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS07_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.2 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS07_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC03_230912 | 12/09/2023 | Headfort Street Boundary DUP | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Duplicate sample of HS07_NW_230912 | - | - | - | - | - | - | - | - | - | - |
| QC04_230912 | 12/09/2023 | Headfort Street Boundary TRIP | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Triplicate sample of HS07_NW_230912 | <0.05 | <0.05 | <0.05 | <0.05 | - | - | <0.05 | <0.05 | - | <0.05 |
| HS08_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS08_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS08_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1 | 26.7 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS09_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 26.7 | 0.45 | 26.25 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS09_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 26.7 | 0.8 | 25.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS09_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 26.7 | 0.55 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.2 | 0.4 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.2 | 1 | 26.2 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC01-230918 | 18/09/2023 | Headfort Street Boundary DUP | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Duplicate sample of HS10_NW_230918 | - | - | - | - | - | - | - | - | - | - |
| QC02_230918 | 18/09/2023 | Headfort Street Boundary TRIP | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Triplicate sample of HS10_NW_230918 | - | - | - | - | - | - | - | - | - | - |
| HS10_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.2 | 0.1 | 27.1 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10A_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.3 | 0.4 | 26.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10A_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.3 | 1 | 26.3 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10A_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.3 | 0.7 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10A_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.3 | 0.1 | 27.2 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10B_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.2 | 0.3 | 26.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10B_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.2 | 1 | 26.2 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10B_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10B_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.2 | 0.1 | 27.1 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS11_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.8 | 0.9 | 26.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS11_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.8 | 1.1 | 26.7 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS11_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.8 | 0.95 | 26.85 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS12_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.5 | 0.95 | 26.55 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS12_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.5 | 1.1 | 26.4 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS12_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.5 | 1 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA01_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 27.1 | 0.05 | 27.05 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA01_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 27.1 | 0.2 | 26.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA01_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 27.1 | 0.25 | 26.85 | Boundary | Final | Normal (Sample ID use by lab is HAS01_NW_2309 | - | - | - | - | - | - | - | - | - | - |
| HSA02_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA02_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA02_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA02_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26.8 | 0.2 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA02_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26.8 | 0.25 | 26.55 | Boundary | Final | Normal (Sample ID use by lab is HAS02_NW_2309 | - | - | - | - | - | - | - | - | - | - |
| HSA03_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA03_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA03_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA03_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26.2 | 0.2 | 26 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |

## C.1.1 Chemical Results - Final Validation Samples

| | | | | | | | | | | | Organophosphorous Pesticides | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Bromophos-ethyl | Carbophenothion | Chlorfenvinphos | Chlorpyrifos | Coumaphos | Demeton-O | Diazinon | Dichlorvos | Disulfoton | Dimethoate |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 2 | 0.2 | 0.05 | 0.05 | 0.2 | 0.05 |
| Remediation Criteria | | | | | | | | | | | - | - | - | 160 | - | - | - | - | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Ground Surface Elevation at Sample Location (m AHD)** | **Sample Depth (m bgs)** | **Sample Depth (m AHD)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | | |
| HSA03_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26.2 | 0.25 | 25.95 | Boundary | Final | Normal (Sample ID use by lab is HAS03_NW_2309 | - | - | - | - | - | - | - | - | - | - |
| HSA04_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26 | 0.05 | 25.95 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA04_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26 | 0.2 | 25.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA04_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26 | 0.25 | 25.75 | Boundary | Final | Normal (Sample ID use by lab is HAS04_NW_2309 | - | - | - | - | - | - | - | - | - | - |
| HSB01_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26.7 | 0.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB01_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26.7 | 0.35 | 26.35 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB01_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26.7 | 0.5 | 26.2 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB01_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26.7 | 0.7 | 26 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB02_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26.6 | 0.1 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB02_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26.6 | 0.3 | 26.3 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB02_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26.6 | 0.4 | 26.2 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB02_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26.6 | 0.6 | 26 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB03_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26 | 0.1 | 25.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB03_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26 | 0.5 | 25.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB03_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26 | 0.6 | 25.4 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB03_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26 | 0.65 | 25.35 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB04_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 25.6 | 0.1 | 25.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB04_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 25.6 | 0.5 | 25.1 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB04_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 25.6 | 0.6 | 25 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB04_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 25.6 | 0.7 | 24.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB05_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 25.1 | 0.1 | 25 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB05_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 25.1 | 0.3 | 24.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB05_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 25.1 | 0.45 | 24.65 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB06_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 24.5 | 0.1 | 24.4 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB06_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC01_DUP_231016 | 16/10/2023 | Newdegate St Boundary DUP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Duplicate sampleof HSB06_ASH_231016 | - | - | - | - | - | - | - | - | - | - |
| QC02_Trip | 16/10/2023 | Newdegate St Boundary TRIP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Triplicate sample of HSB06_ASH_231016 | - | - | - | - | - | - | - | - | - | - |
| QC03_DUP_231016 | 16/10/2023 | Newdegate St Boundary DUP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Duplicate sampleof HSB06_ASH_231016 | - | - | - | - | - | - | - | - | - | - |
| QC04_Trip | 16/10/2023 | Newdegate St Boundary TRIP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Triplicate sample of HSB06_ASH_231016 | - | - | - | - | - | - | - | - | - | - |
| HSB06_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 24.5 | 0.7 | 23.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB06_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 24.5 | 0.9 | 23.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB07 | 26/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 24.2 | 0.1 | 24.1 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB08 | 18/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 23.5 | 0.2 | 23.3 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB18 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.4 | 0.15 | 23.25 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB19 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.5 | 0.15 | 23.35 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB20 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.6 | 0.15 | 23.45 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB21 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.8 | 0.15 | 23.65 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB22 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.8 | 0.15 | 23.65 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB23 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB24 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB25 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB26 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB27 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC101 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Duplicate of HSB27 | - | - | - | - | - | - | - | - | - | - |
| QC102 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Triplicate of HSB27 | - | - | - | - | - | - | - | - | - | - |
| DW-B1 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.7 | 0.3 | 24.4 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| DW-B2 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.7 | 0.3 | 24.4 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| DW-B3 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.5 | 0.3 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| DW-B4 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.5 | 0.3 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC106 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Duplicate sample of A1 | - | - | - | - | - | - | - | - | - | - |
| QC107 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Duplicate sample of A1 | - | - | - | - | - | - | - | - | - | - |
| QC107 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Triplicate sample of A1 | - | - | - | - | - | - | - | - | - | - |
| A2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.4 | 0.1 | 23.3 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.5 | 0.1 | 23.4 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.6 | 0.1 | 23.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.8 | 0.1 | 23.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.8 | 0.1 | 23.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |

## C.1.1 Chemical Results - Final Validation Samples

| | | | | | | | | | | | Organophosphorous Pesticides | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Bromophos-ethyl | Carbophenothion | Chlorfenvinphos | Chlorpyrifos | Coumaphos | Demeton-O | Diazinon | Dichlorvos | Disulfoton | Dimethoate |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 2 | 0.2 | 0.05 | 0.05 | 0.2 | 0.05 |
| Remediation Criteria | | | | | | | | | | | - | - | - | 160 | - | - | - | - | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Ground Surface Elevation at Sample Location (m AHD)** | **Sample Depth (m bgs)** | **Sample Depth (m AHD)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | | |
| A10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B1 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.1 | 0.1 | 24 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.1 | 0.1 | 24 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC108 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Duplicate sample of C3 | - | - | - | - | - | - | - | - | - | - |
| QC109 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Duplicate sample of C3 | - | - | - | - | - | - | - | - | - | - |
| QC109 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Triplicate sample of C3 | - | - | - | - | - | - | - | - | - | - |
| C4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C7 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC120 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Duplicate sample of C7 | - | - | - | - | - | - | - | - | - | - |
| QC121 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Duplicate sample of C7 | - | - | - | - | - | - | - | - | - | - |
| QC121 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Triplicate sample of C7 | - | - | - | - | - | - | - | - | - | - |
| C8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.7 | 0.1 | 24.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.4 | 0.1 | 24.3 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D4 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.4 | 0.1 | 24.3 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.5 | 0.1 | 24.4 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.7 | 0.1 | 24.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D8 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC116 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Duplicate sample of D10 | - | - | - | - | - | - | - | - | - | - |
| QC117 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Duplicate sample of D10 | - | - | - | - | - | - | - | - | - | - |
| QC117 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Triplicate sample of D10 | - | - | - | - | - | - | - | - | - | - |
| E1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.1 | 0.1 | 25 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E2 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E4 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC110 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Duplicate sample of E5 | - | - | - | - | - | - | - | - | - | - |
| QC111 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Duplicate sample of E5 | - | - | - | - | - | - | - | - | - | - |
| QC111 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Triplicate sample of E5 | - | - | - | - | - | - | - | - | - | - |
| E6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |

## C.1.1 Chemical Results - Final Validation Samples

| | | | | | | | | | | | Organophosphorous Pesticides | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Bromophos-ethyl | Carbophenothion | Chlorfenvinphos | Chlorpyrifos | Coumaphos | Demeton-O | Diazinon | Dichlorvos | Disulfoton | Dimethoate |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 2 | 0.2 | 0.05 | 0.05 | 0.2 | 0.05 |
| Remediation Criteria | | | | | | | | | | | - | - | - | 160 | - | - | - | - | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Ground Surface Elevation at Sample Location (m AHD)** | **Sample Depth (m bgs)** | **Sample Depth (m AHD)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | | |
| E10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.5 | 0.1 | 25.4 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.4 | 0.1 | 25.3 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.4 | 0.1 | 25.3 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.6 | 0.1 | 25.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G3 | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC112 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Duplicate sample of G7 | - | - | - | - | - | - | - | - | - | - |
| QC113 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Duplicate sample of G7 | - | - | - | - | - | - | - | - | - | - |
| QC113 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Triplicate sample of G7 | - | - | - | - | - | - | - | - | - | - |
| G8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.3 | 0.1 | 26.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC118 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Duplicate sample of H1 | - | - | - | - | - | - | - | - | - | - |
| QC119 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Duplicate sample of H1 | - | - | - | - | - | - | - | - | - | - |
| QC119 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Triplicate sample of H1 | - | - | - | - | - | - | - | - | - | - |
| H2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.1 | 0.1 | 26 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.2 | 0.1 | 26.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.2 | 0.1 | 26.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC114 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | - | - | - | - | - | - | - | - | - | - |
| QC114 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | - | - | - | - | - | - | - | - | - | - |
| QC115 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | - | - | - | - | - | - | - | - | - | - |
| QC115 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Triplicate sampleof H9 | - | - | - | - | - | - | - | - | - | - |
| H10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.8 | 0.1 | 26.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26.8 | 0.1 | 26.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| TR01_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.55 | 24.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| TR02_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.35 | 24.85 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| TR03_TRENCH FLOOR_230921 | 21/09/2023 | Trench | Natural Ground | Floor | 25.2 | 0.6 | 24.6 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC14_230921 | 21/09/2023 | Trench DUP | Natural Ground | Floor | 25.1 | 0.6 | 24.5 | Trench | Final | Duplicate sample of TR03_TRENCH FLOOR_2309 | - | - | - | - | - | - | - | - | - | - |
| QC15_230921 | 21/09/2023 | Trench TRIP | Natural Ground | Floor | 25.2 | 0.6 | 24.6 | Trench | Final | Triplicate sample of TR03_TRENCHFLOOR_23092 | - | - | - | - | - | - | - | - | - | - |
| TR04_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.25 | 24.95 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| TR05_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.25 | 24.95 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| TR06_TRENCH FLOOR_230921 | 21/09/2023 | Trench | Natural Ground | Floor | 25.2 | 0.5 | 24.7 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T01_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.55 | 23.75 | Trench | Final | Normal (Sample ID used by lab is TS01_B) | - | - | - | - | - | - | - | - | - | - |
| T01_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.225 | 24.075 | Trench | Final | Normal (Sample ID used by lab is TS01_W1) | - | - | - | - | - | - | - | - | - | - |
| T01_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.22 | 24.08 | Trench | Final | Normal (Sample ID used by lab is TS01_W2) | - | - | - | - | - | - | - | - | - | - |
| T02_B | 18/10/2023 | Trench | Natural Ground | Floor | 24 | 0.5 | 23.5 | Trench | Final | Normal (Sample ID used by lab is TS02_B) | - | - | - | - | - | - | - | - | - | - |
| T02_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24 | 0.25 | 23.75 | Trench | Final | Normal (Sample ID used by lab is TS02_W1) | - | - | - | - | - | - | - | - | - | - |
| T02_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24 | 0.3 | 23.7 | Trench | Final | Normal (Sample ID used by lab is TS02_W2) | - | - | - | - | - | - | - | - | - | - |
| T03_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS03_B) | - | - | - | - | - | - | - | - | - | - |
| QC101 | 18/10/2023 | Trench DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Trench | Final | Duplicate sample of TS03_B | - | - | - | - | - | - | - | - | - | - |

## C.1.1 Chemical Results - Final Validation Samples

| | | | | | | | | | | | Organophosphorous Pesticides | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Bromophos-ethyl | Carbophenothion | Chlorfenvinphos | Chlorpyrifos | Coumaphos | Demeton-O | Diazinon | Dichlorvos | Disulfoton | Dimethoate |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 2 | 0.2 | 0.05 | 0.05 | 0.2 | 0.05 |
| Remediation Criteria | | | | | | | | | | | - | - | - | 160 | - | - | - | - | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Ground Surface Elevation at Sample Location (m AHD)** | **Sample Depth (m bgs)** | **Sample Depth (m AHD)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | | |
| QC102 | 18/10/2023 | Trench TRIP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Trench | Final | Triplicate sample of TS03_B | - | - | - | - | - | - | - | - | - | - |
| T03_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.35 | 23.55 | Trench | Final | Normal (Sample ID used by lab is TS03_W1) | - | - | - | - | - | - | - | - | - | - |
| T03_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.35 | 23.55 | Trench | Final | Normal (Sample ID used by lab is TS03_W2) | - | - | - | - | - | - | - | - | - | - |
| T04_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.6 | 0.55 | 23.05 | Trench | Final | Normal (Sample ID used by lab is TS04_B) | - | - | - | - | - | - | - | - | - | - |
| T04_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.6 | 0.32 | 23.28 | Trench | Final | Normal (Sample ID used by lab is TS04_W1) | - | - | - | - | - | - | - | - | - | - |
| T04_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.6 | 0.35 | 23.25 | Trench | Final | Normal (Sample ID used by lab is TS04_W2) | - | - | - | - | - | - | - | - | - | - |
| T05_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.55 | 22.85 | Trench | Final | Normal (Sample ID used by lab is TS05_B) | - | - | - | - | - | - | - | - | - | - |
| T05_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.4 | 23 | Trench | Final | Normal (Sample ID used by lab is TS05_W1) | - | - | - | - | - | - | - | - | - | - |
| QC103 | 18/10/2023 | Trench DUP | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Duplicate sample of TS05_W1 | - | - | - | - | - | - | - | - | - | - |
| QC104 | 18/10/2023 | Trench TRIP | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Triplicate sampleof TS05_W1 | - | - | - | - | - | - | - | - | - | - |
| T05_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS05_W2) | - | - | - | - | - | - | - | - | - | - |
| T06_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.5 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS06_B) | - | - | - | - | - | - | - | - | - | - |
| T06_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS06_W1) | - | - | - | - | - | - | - | - | - | - |
| T06_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS06_W2) | - | - | - | - | - | - | - | - | - | - |
| T07_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.5 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS07_B) | - | - | - | - | - | - | - | - | - | - |
| T07_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS07_W1) | - | - | - | - | - | - | - | - | - | - |
| T07_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS07_W2) | - | - | - | - | - | - | - | - | - | - |
| T08_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.55 | 22.85 | Trench | Final | Normal (Sample ID used by lab is TS08_B) | - | - | - | - | - | - | - | - | - | - |
| T08_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS08_W1) | - | - | - | - | - | - | - | - | - | - |
| T08_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.21 | 23.19 | Trench | Final | Normal (Sample ID used by lab is TS08_W2) | - | - | - | - | - | - | - | - | - | - |
| T09_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.6 | 22.8 | Trench | Final | Normal (Sample ID used by lab is TS09_B) | - | - | - | - | - | - | - | - | - | - |
| T09_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS09_W1) | - | - | - | - | - | - | - | - | - | - |
| T09_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.32 | 23.08 | Trench | Final | Normal (Sample ID used by lab is TS09_W2) | - | - | - | - | - | - | - | - | - | - |
| T10_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.5 | 0.6 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS10_B) | - | - | - | - | - | - | - | - | - | - |
| T10_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.5 | 0.3 | 23.2 | Trench | Final | Normal (Sample ID used by lab is TS10_W1) | - | - | - | - | - | - | - | - | - | - |
| T10_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.5 | 0.3 | 23.2 | Trench | Final | Normal (Sample ID used by lab is TS10_W2) | - | - | - | - | - | - | - | - | - | - |
| T11_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.7 | 0.6 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS11_B) | - | - | - | - | - | - | - | - | - | - |
| T11_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.7 | 0.3 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS11_W1) | - | - | - | - | - | - | - | - | - | - |
| T11_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.7 | 0.3 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS11_W2) | - | - | - | - | - | - | - | - | - | - |
| T12_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.6 | 23.3 | Trench | Final | Normal (Sample ID used by lab is TS12_B) | - | - | - | - | - | - | - | - | - | - |
| T12_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.3 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS12_W1) | - | - | - | - | - | - | - | - | - | - |
| T12_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.3 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS12_W2) | - | - | - | - | - | - | - | - | - | - |
| T13_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.6 | 23.7 | Trench | Final | Normal (Sample ID used by lab is TS13_B) | - | - | - | - | - | - | - | - | - | - |
| T13_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.3 | 24 | Trench | Final | Normal (Sample ID used by lab is TS13_W1) | - | - | - | - | - | - | - | - | - | - |
| T13_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.3 | 24 | Trench | Final | Normal (Sample ID used by lab is TS13_W2) | - | - | - | - | - | - | - | - | - | - |
| T14_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.9 | 0.6 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS14_B) | - | - | - | - | - | - | - | - | - | - |
| T14_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.9 | 0.3 | 24.6 | Trench | Final | Normal (Sample ID used by lab is TS14_W1) | - | - | - | - | - | - | - | - | - | - |
| T14_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.9 | 0.3 | 24.6 | Trench | Final | Normal (Sample ID used by lab is TS14_W2) | - | - | - | - | - | - | - | - | - | - |
| T15_B | 18/10/2023 | Trench | Natural Ground | Floor | 25 | 0.6 | 24.4 | Trench | Final | Normal (Sample ID used by lab is TS15_B) | - | - | - | - | - | - | - | - | - | - |
| T15_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 25 | 0.3 | 24.7 | Trench | Final | Normal (Sample ID used by lab is TS15_W1) | - | - | - | - | - | - | - | - | - | - |
| T15_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 25 | 0.3 | 24.7 | Trench | Final | Normal (Sample ID used by lab is TS15_W2) | - | - | - | - | - | - | - | - | - | - |
| T16_B | 18/10/2023 | Trench | Natural Ground | Floor | 25.7 | 0.6 | 25.1 | Trench | Final | Normal (Sample ID used by lab is TS16_B) | - | - | - | - | - | - | - | - | - | - |
| T16_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 25.7 | 0.3 | 25.4 | Trench | Final | Normal (Sample ID used by lab is TS16_W1) | - | - | - | - | - | - | - | - | - | - |
| T16_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 25.7 | 0.3 | 25.4 | Trench | Final | Normal (Sample ID used by lab is TS16_W2) | - | - | - | - | - | - | - | - | - | - |
| T17-B | 26/10/2023 | Trench | Natural Ground | Floor | 23.8 | 0.55 | 23.25 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T17-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 23.8 | 0.15 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T17-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 23.8 | 0.15 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T18-B | 26/10/2023 | Trench | Natural Ground | Floor | 24 | 0.55 | 23.45 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T18-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24 | 0.6 | 23.4 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T18-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.35 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T18-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.35 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T19-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.4 | 23.9 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T19-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.2 | 24.1 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T19-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.25 | 24.05 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T20-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.55 | 23.55 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T20-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T20-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.15 | 23.95 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T21-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.2 | 0.6 | 23.6 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T21-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24.2 | 0.6 | 23.6 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T21-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.2 | 0.25 | 23.95 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T21-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.2 | 0.3 | 23.9 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |

## C.1.1 Chemical Results - Final Validation Samples

| | | | | | | | | | | | Organophosphorous Pesticides | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Bromophos-ethyl | Carbophenothion | Chlorfenvinphos | Chlorpyrifos | Coumaphos | Demeton-O | Diazinon | Dichlorvos | Disulfoton | Dimethoate |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 2 | 0.2 | 0.05 | 0.05 | 0.2 | 0.05 |
| Remediation Criteria | | | | | | | | | | | - | - | - | 160 | - | - | - | - | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Ground Surface Elevation at Sample Location (m AHD)** | **Sample Depth (m bgs)** | **Sample Depth (m AHD)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | | |
| T22-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.38 | 24.02 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24.4 | 0.38 | 24.02 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22_F_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.5 | 23.9 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22_WA_231016 | 16/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.15 | 24.25 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22_WB_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23-B | 26/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23_F_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23_WA_231016 | 16/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.2 | 23.7 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23_WB_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T24-B | 26/10/2023 | Trench | Natural Ground | Floor | 24 | 0.45 | 23.55 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T24-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24 | 0.45 | 23.55 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T24-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.15 | 23.85 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T24-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.15 | 23.85 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T25_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.6 | 0.6 | 24 | Trench | Final | Normal (Sample ID used by lab is TS25_B) | - | - | - | - | - | - | - | - | - | - |
| T25_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.6 | 0.3 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS25_W1) | - | - | - | - | - | - | - | - | - | - |
| T25_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.6 | 0.3 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS25_W2) | - | - | - | - | - | - | - | - | - | - |
| T26_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.45 | 23.65 | Trench | Final | Normal (Sample ID used by lab is TS26_B) | - | - | - | - | - | - | - | - | - | - |
| T26_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS26_W1) | - | - | - | - | - | - | - | - | - | - |
| T26_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS26_W2) | - | - | - | - | - | - | - | - | - | - |
| T27_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.5 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS27_B) | - | - | - | - | - | - | - | - | - | - |
| T27_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.19 | 23.91 | Trench | Final | Normal (Sample ID used by lab is TS27_W1) | - | - | - | - | - | - | - | - | - | - |
| T27_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS27_W2) | - | - | - | - | - | - | - | - | - | - |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | Ethion | Fenthion | EPN | Methyl parathion | Mevinphos (Phosdrin) | Monocrotophos | Naled (Dibrom) | Parathion | Phorate | Pirimiphos-methyl |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.05 | 0.05 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Remediation Criteria | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - |
| HS01_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.7 | 27 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS01_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS01_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.75 | 26.95 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS02_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.7 | 27 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS02_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS02_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.85 | 26.85 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS03_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.8 | 26.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS03_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS03_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS04_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.85 | 26.85 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS04_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS04_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS05_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS05_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS05_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.95 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS06_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 1 | 26.7 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS06_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.2 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS06_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS07_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.95 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS07_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.2 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS07_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC03_230912 | 12/09/2023 | Headfort Street Boundary DUP | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Duplicate sample of HS07_NW_230912 | - | - | - | - | - | - | - | - | - | - |
| QC04_230912 | 12/09/2023 | Headfort Street Boundary TRIP | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Triplicate sample of HS07_NW_230912 | <0.05 | <0.05 | - | <0.2 | - | <0.2 | - | <0.2 | - | - |
| HS08_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS08_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS08_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1 | 26.7 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS09_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 26.7 | 0.45 | 26.25 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS09_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 26.7 | 0.8 | 25.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS09_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 26.7 | 0.55 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.2 | 0.4 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.2 | 1 | 26.2 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC01-230918 | 18/09/2023 | Headfort Street Boundary DUP | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Duplicate sample of HS10_NW_230918 | - | - | - | - | - | - | - | - | - | - |
| QC02_230918 | 18/09/2023 | Headfort Street Boundary TRIP | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Triplicate sample of HS10_NW_230918 | - | - | - | - | - | - | - | - | - | - |
| HS10_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.2 | 0.1 | 27.1 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10A_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.3 | 0.4 | 26.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10A_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.3 | 1 | 26.3 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10A_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.3 | 0.7 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10A_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.3 | 0.1 | 27.2 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10B_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.2 | 0.3 | 26.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10B_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.2 | 1 | 26.2 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10B_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10B_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.2 | 0.1 | 27.1 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS11_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.8 | 0.9 | 26.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS11_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.8 | 1.1 | 26.7 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS11_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.8 | 0.95 | 26.85 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS12_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.5 | 0.95 | 26.55 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS12_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.5 | 1.1 | 26.4 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS12_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.5 | 1 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA01_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 27.1 | 0.05 | 27.05 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA01_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 27.1 | 0.2 | 26.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA01_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 27.1 | 0.25 | 26.85 | Boundary | Final | Normal (Sample ID use by lab is HAS01_NW_2309 | - | - | - | - | - | - | - | - | - | - |
| HSA02_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA02_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA02_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA02_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26.8 | 0.2 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA02_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26.8 | 0.25 | 26.55 | Boundary | Final | Normal (Sample ID use by lab is HAS02_NW_2309 | - | - | - | - | - | - | - | - | - | - |
| HSA03_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA03_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA03_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA03_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26.2 | 0.2 | 26 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | Ethion | Fenthion | EPN | Methyl parathion | Mevinphos (Phosdrin) | Monocrotophos | Naled (Dibrom) | Parathion | Phorate | Pirimiphos-methyl |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | | | | | | | | | | | 0.05 | 0.05 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Remediation Criteria | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - |
| HSA03_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26.2 | 0.25 | 25.95 | Boundary | Final | Normal (Sample ID use by lab is HAS03_NW_2309 | - | - | - | - | - | - | - | - | - | - |
| HSA04_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26 | 0.05 | 25.95 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA04_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26 | 0.2 | 25.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA04_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26 | 0.25 | 25.75 | Boundary | Final | Normal (Sample ID use by lab is HAS04_NW_2309 | - | - | - | - | - | - | - | - | - | - |
| HSB01_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26.7 | 0.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB01_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26.7 | 0.35 | 26.35 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB01_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26.7 | 0.5 | 26.2 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB01_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26.7 | 0.7 | 26 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB02_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26.6 | 0.1 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB02_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26.6 | 0.3 | 26.3 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB02_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26.6 | 0.4 | 26.2 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB02_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26.6 | 0.6 | 26 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB03_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26 | 0.1 | 25.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB03_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26 | 0.5 | 25.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB03_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26 | 0.6 | 25.4 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB03_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26 | 0.65 | 25.35 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB04_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 25.6 | 0.1 | 25.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB04_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 25.6 | 0.5 | 25.1 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB04_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 25.6 | 0.6 | 25 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB04_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 25.6 | 0.7 | 24.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB05_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 25.1 | 0.1 | 25 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB05_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 25.1 | 0.3 | 24.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB05_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 25.1 | 0.45 | 24.65 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB06_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 24.5 | 0.1 | 24.4 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB06_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC01_DUP_231016 | 16/10/2023 | Newdegate St Boundary DUP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Duplicate sampleof HSB06_ASH_231016 | - | - | - | - | - | - | - | - | - | - |
| QC02_Trip | 16/10/2023 | Newdegate St Boundary TRIP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Triplicate sample of HSB06_ASH_231016 | - | - | - | - | - | - | - | - | - | - |
| QC03_DUP_231016 | 16/10/2023 | Newdegate St Boundary DUP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Duplicate sampleof HSB06_ASH_231016 | - | - | - | - | - | - | - | - | - | - |
| QC04_Trip | 16/10/2023 | Newdegate St Boundary TRIP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Triplicate sample of HSB06_ASH_231016 | - | - | - | - | - | - | - | - | - | - |
| HSB06_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 24.5 | 0.7 | 23.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB06_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 24.5 | 0.9 | 23.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB07 | 26/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 24.2 | 0.1 | 24.1 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB08 | 18/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 23.5 | 0.2 | 23.3 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB18 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.4 | 0.15 | 23.25 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB19 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.5 | 0.15 | 23.35 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB20 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.6 | 0.15 | 23.45 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB21 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.8 | 0.15 | 23.65 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB22 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.8 | 0.15 | 23.65 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB23 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB24 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB25 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB26 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB27 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC101 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Duplicate of HSB27 | - | - | - | - | - | - | - | - | - | - |
| QC102 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Triplicate of HSB27 | - | - | - | - | - | - | - | - | - | - |
| DW-B1 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.7 | 0.3 | 24.4 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| DW-B2 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.7 | 0.3 | 24.4 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| DW-B3 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.5 | 0.3 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| DW-B4 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.5 | 0.3 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC106 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Duplicate sample of A1 | - | - | - | - | - | - | - | - | - | - |
| QC107 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Duplicate sample of A1 | - | - | - | - | - | - | - | - | - | - |
| QC107 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Triplicate sample of A1 | - | - | - | - | - | - | - | - | - | - |
| A2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.4 | 0.1 | 23.3 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.5 | 0.1 | 23.4 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.6 | 0.1 | 23.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.8 | 0.1 | 23.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.8 | 0.1 | 23.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | Ethion | Fenthion | EPN | Methyl parathion | Mevinphos (Phosdrin) | Monocrotophos | Naled (Dibrom) | Parathion | Phorate | Pirimiphos-methyl |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.05 | 0.05 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Remediation Criteria | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - |
| A10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B1 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.1 | 0.1 | 24 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.1 | 0.1 | 24 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC108 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Duplicate sample of C3 | - | - | - | - | - | - | - | - | - | - |
| QC109 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Duplicate sample of C3 | - | - | - | - | - | - | - | - | - | - |
| QC109 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Triplicate sample of C3 | - | - | - | - | - | - | - | - | - | - |
| C4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C7 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC120 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Duplicate sample of C7 | - | - | - | - | - | - | - | - | - | - |
| QC121 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Duplicate sample of C7 | - | - | - | - | - | - | - | - | - | - |
| QC121 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Triplicate sample of C7 | - | - | - | - | - | - | - | - | - | - |
| C8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.7 | 0.1 | 24.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.4 | 0.1 | 24.3 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D4 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.4 | 0.1 | 24.3 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.5 | 0.1 | 24.4 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.7 | 0.1 | 24.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D8 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC116 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Duplicate sample of D10 | - | - | - | - | - | - | - | - | - | - |
| QC117 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Duplicate sample of D10 | - | - | - | - | - | - | - | - | - | - |
| QC117 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Triplicate sample of D10 | - | - | - | - | - | - | - | - | - | - |
| E1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.1 | 0.1 | 25 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E2 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E4 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC110 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Duplicate sample of E5 | - | - | - | - | - | - | - | - | - | - |
| QC111 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Duplicate sample of E5 | - | - | - | - | - | - | - | - | - | - |
| QC111 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Triplicate sample of E5 | - | - | - | - | - | - | - | - | - | - |
| E6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | Ethion | Fenthion | EPN | Methyl parathion | Mevinphos (Phosdrin) | Monocrotophos | Naled (Dibrom) | Parathion | Phorate | Pirimiphos-methyl |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.05 | 0.05 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Remediation Criteria | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - |
| E10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.5 | 0.1 | 25.4 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.4 | 0.1 | 25.3 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.4 | 0.1 | 25.3 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.6 | 0.1 | 25.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G3 | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC112 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Duplicate sample of G7 | - | - | - | - | - | - | - | - | - | - |
| QC113 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Duplicate sample of G7 | - | - | - | - | - | - | - | - | - | - |
| QC113 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Triplicate sample of G7 | - | - | - | - | - | - | - | - | - | - |
| G8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.3 | 0.1 | 26.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC118 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Duplicate sample of H1 | - | - | - | - | - | - | - | - | - | - |
| QC119 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Duplicate sample of H1 | - | - | - | - | - | - | - | - | - | - |
| QC119 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Triplicate sample of H1 | - | - | - | - | - | - | - | - | - | - |
| H2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.1 | 0.1 | 26 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.2 | 0.1 | 26.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.2 | 0.1 | 26.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC114 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | - | - | - | - | - | - | - | - | - | - |
| QC114 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | - | - | - | - | - | - | - | - | - | - |
| QC115 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | - | - | - | - | - | - | - | - | - | - |
| QC115 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Triplicate sampleof H9 | - | - | - | - | - | - | - | - | - | - |
| H10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.8 | 0.1 | 26.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26.8 | 0.1 | 26.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| TR01_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.55 | 24.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| TR02_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.35 | 24.85 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| TR03_TRENCH FLOOR_230921 | 21/09/2023 | Trench | Natural Ground | Floor | 25.2 | 0.6 | 24.6 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC14_230921 | 21/09/2023 | Trench DUP | Natural Ground | Floor | 25.1 | 0.6 | 24.5 | Trench | Final | Duplicate sample of TR03_TRENCH FLOOR_2309 | - | - | - | - | - | - | - | - | - | - |
| QC15_230921 | 21/09/2023 | Trench TRIP | Natural Ground | Floor | 25.2 | 0.6 | 24.6 | Trench | Final | Triplicate sample of TR03_TRENCHFLOOR_23092 | - | - | - | - | - | - | - | - | - | - |
| TR04_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.25 | 24.95 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| TR05_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.25 | 24.95 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| TR06_TRENCH FLOOR_230921 | 21/09/2023 | Trench | Natural Ground | Floor | 25.2 | 0.5 | 24.7 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T01_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.55 | 23.75 | Trench | Final | Normal (Sample ID used by lab is TS01_B) | - | - | - | - | - | - | - | - | - | - |
| T01_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.225 | 24.075 | Trench | Final | Normal (Sample ID used by lab is TS01_W1) | - | - | - | - | - | - | - | - | - | - |
| T01_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.22 | 24.08 | Trench | Final | Normal (Sample ID used by lab is TS01_W2) | - | - | - | - | - | - | - | - | - | - |
| T02_B | 18/10/2023 | Trench | Natural Ground | Floor | 24 | 0.5 | 23.5 | Trench | Final | Normal (Sample ID used by lab is TS02_B) | - | - | - | - | - | - | - | - | - | - |
| T02_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24 | 0.25 | 23.75 | Trench | Final | Normal (Sample ID used by lab is TS02_W1) | - | - | - | - | - | - | - | - | - | - |
| T02_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24 | 0.3 | 23.7 | Trench | Final | Normal (Sample ID used by lab is TS02_W2) | - | - | - | - | - | - | - | - | - | - |
| T03_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS03_B) | - | - | - | - | - | - | - | - | - | - |
| QC101 | 18/10/2023 | Trench DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Trench | Final | Duplicate sample of TS03_B | - | - | - | - | - | - | - | - | - | - |

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | Ethion | Fenthion | EPN | Methyl parathion | Mevinphos (Phosdrin) | Monocrotophos | Naled (Dibrom) | Parathion | Phorate | Pirimiphos-methyl |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | | | | | | | | | | | 0.05 | 0.05 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Remediation Criteria | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - |
| QC102 | 18/10/2023 | Trench TRIP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Trench | Final | Triplicate sample of TS03_B | - | - | - | - | - | - | - | - | - | - |
| T03_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.35 | 23.55 | Trench | Final | Normal (Sample ID used by lab is TS03_W1) | - | - | - | - | - | - | - | - | - | - |
| T03_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.35 | 23.55 | Trench | Final | Normal (Sample ID used by lab is TS03_W2) | - | - | - | - | - | - | - | - | - | - |
| T04_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.6 | 0.55 | 23.05 | Trench | Final | Normal (Sample ID used by lab is TS04_B) | - | - | - | - | - | - | - | - | - | - |
| T04_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.6 | 0.32 | 23.28 | Trench | Final | Normal (Sample ID used by lab is TS04_W1) | - | - | - | - | - | - | - | - | - | - |
| T04_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.6 | 0.35 | 23.25 | Trench | Final | Normal (Sample ID used by lab is TS04_W2) | - | - | - | - | - | - | - | - | - | - |
| T05_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.55 | 22.85 | Trench | Final | Normal (Sample ID used by lab is TS05_B) | - | - | - | - | - | - | - | - | - | - |
| T05_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.4 | 23 | Trench | Final | Normal (Sample ID used by lab is TS05_W1) | - | - | - | - | - | - | - | - | - | - |
| QC103 | 18/10/2023 | Trench DUP | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Duplicate sample of TS05_W1 | - | - | - | - | - | - | - | - | - | - |
| QC104 | 18/10/2023 | Trench TRIP | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Triplicate sampleof TS05_W1 | - | - | - | - | - | - | - | - | - | - |
| T05_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS05_W2) | - | - | - | - | - | - | - | - | - | - |
| T06_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.5 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS06_B) | - | - | - | - | - | - | - | - | - | - |
| T06_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS06_W1) | - | - | - | - | - | - | - | - | - | - |
| T06_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS06_W2) | - | - | - | - | - | - | - | - | - | - |
| T07_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.5 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS07_B) | - | - | - | - | - | - | - | - | - | - |
| T07_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS07_W1) | - | - | - | - | - | - | - | - | - | - |
| T07_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS07_W2) | - | - | - | - | - | - | - | - | - | - |
| T08_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.55 | 22.85 | Trench | Final | Normal (Sample ID used by lab is TS08_B) | - | - | - | - | - | - | - | - | - | - |
| T08_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS08_W1) | - | - | - | - | - | - | - | - | - | - |
| T08_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.21 | 23.19 | Trench | Final | Normal (Sample ID used by lab is TS08_W2) | - | - | - | - | - | - | - | - | - | - |
| T09_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.6 | 22.8 | Trench | Final | Normal (Sample ID used by lab is TS09_B) | - | - | - | - | - | - | - | - | - | - |
| T09_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS09_W1) | - | - | - | - | - | - | - | - | - | - |
| T09_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.32 | 23.08 | Trench | Final | Normal (Sample ID used by lab is TS09_W2) | - | - | - | - | - | - | - | - | - | - |
| T10_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.5 | 0.6 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS10_B) | - | - | - | - | - | - | - | - | - | - |
| T10_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.5 | 0.3 | 23.2 | Trench | Final | Normal (Sample ID used by lab is TS10_W1) | - | - | - | - | - | - | - | - | - | - |
| T10_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.5 | 0.3 | 23.2 | Trench | Final | Normal (Sample ID used by lab is TS10_W2) | - | - | - | - | - | - | - | - | - | - |
| T11_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.7 | 0.6 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS11_B) | - | - | - | - | - | - | - | - | - | - |
| T11_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.7 | 0.3 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS11_W1) | - | - | - | - | - | - | - | - | - | - |
| T11_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.7 | 0.3 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS11_W2) | - | - | - | - | - | - | - | - | - | - |
| T12_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.6 | 23.3 | Trench | Final | Normal (Sample ID used by lab is TS12_B) | - | - | - | - | - | - | - | - | - | - |
| T12_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.3 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS12_W1) | - | - | - | - | - | - | - | - | - | - |
| T12_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.3 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS12_W2) | - | - | - | - | - | - | - | - | - | - |
| T13_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.6 | 23.7 | Trench | Final | Normal (Sample ID used by lab is TS13_B) | - | - | - | - | - | - | - | - | - | - |
| T13_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.3 | 24 | Trench | Final | Normal (Sample ID used by lab is TS13_W1) | - | - | - | - | - | - | - | - | - | - |
| T13_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.3 | 24 | Trench | Final | Normal (Sample ID used by lab is TS13_W2) | - | - | - | - | - | - | - | - | - | - |
| T14_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.9 | 0.6 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS14_B) | - | - | - | - | - | - | - | - | - | - |
| T14_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.9 | 0.3 | 24.6 | Trench | Final | Normal (Sample ID used by lab is TS14_W1) | - | - | - | - | - | - | - | - | - | - |
| T14_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.9 | 0.3 | 24.6 | Trench | Final | Normal (Sample ID used by lab is TS14_W2) | - | - | - | - | - | - | - | - | - | - |
| T15_B | 18/10/2023 | Trench | Natural Ground | Floor | 25 | 0.6 | 24.4 | Trench | Final | Normal (Sample ID used by lab is TS15_B) | - | - | - | - | - | - | - | - | - | - |
| T15_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 25 | 0.3 | 24.7 | Trench | Final | Normal (Sample ID used by lab is TS15_W1) | - | - | - | - | - | - | - | - | - | - |
| T15_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 25 | 0.3 | 24.7 | Trench | Final | Normal (Sample ID used by lab is TS15_W2) | - | - | - | - | - | - | - | - | - | - |
| T16_B | 18/10/2023 | Trench | Natural Ground | Floor | 25.7 | 0.6 | 25.1 | Trench | Final | Normal (Sample ID used by lab is TS16_B) | - | - | - | - | - | - | - | - | - | - |
| T16_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 25.7 | 0.3 | 25.4 | Trench | Final | Normal (Sample ID used by lab is TS16_W1) | - | - | - | - | - | - | - | - | - | - |
| T16_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 25.7 | 0.3 | 25.4 | Trench | Final | Normal (Sample ID used by lab is TS16_W2) | - | - | - | - | - | - | - | - | - | - |
| T17-B | 26/10/2023 | Trench | Natural Ground | Floor | 23.8 | 0.55 | 23.25 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T17-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 23.8 | 0.15 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T17-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 23.8 | 0.15 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T18-B | 26/10/2023 | Trench | Natural Ground | Floor | 24 | 0.55 | 23.45 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T18-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24 | 0.6 | 23.4 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T18-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.35 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T18-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.35 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T19-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.4 | 23.9 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T19-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.2 | 24.1 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T19-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.25 | 24.05 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T20-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.55 | 23.55 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T20-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T20-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.15 | 23.95 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T21-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.2 | 0.6 | 23.6 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T21-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24.2 | 0.6 | 23.6 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T21-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.2 | 0.25 | 23.95 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T21-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.2 | 0.3 | 23.9 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | Ethion | Fenthion | EPN | Methyl parathion | Mevinphos (Phosdrin) | Monocrotophos | Naled (Dibrom) | Parathion | Phorate | Pirimiphos-methyl |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.05 | 0.05 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Remediation Criteria | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - |
| T22-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.38 | 24.02 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24.4 | 0.38 | 24.02 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22_F_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.5 | 23.9 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22_WA_231016 | 16/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.15 | 24.25 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22_WB_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23-B | 26/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23_F_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23_WA_231016 | 16/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.2 | 23.7 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23_WB_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T24-B | 26/10/2023 | Trench | Natural Ground | Floor | 24 | 0.45 | 23.55 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T24-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24 | 0.45 | 23.55 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T24-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.15 | 23.85 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T24-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.15 | 23.85 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T25_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.6 | 0.6 | 24 | Trench | Final | Normal (Sample ID used by lab is TS25_B) | - | - | - | - | - | - | - | - | - | - |
| T25_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.6 | 0.3 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS25_W1) | - | - | - | - | - | - | - | - | - | - |
| T25_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.6 | 0.3 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS25_W2) | - | - | - | - | - | - | - | - | - | - |
| T26_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.45 | 23.65 | Trench | Final | Normal (Sample ID used by lab is TS26_B) | - | - | - | - | - | - | - | - | - | - |
| T26_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS26_W1) | - | - | - | - | - | - | - | - | - | - |
| T26_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS26_W2) | - | - | - | - | - | - | - | - | - | - |
| T27_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.5 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS27_B) | - | - | - | - | - | - | - | - | - | - |
| T27_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.19 | 23.91 | Trench | Final | Normal (Sample ID used by lab is TS27_W1) | - | - | - | - | - | - | - | - | - | - |
| T27_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS27_W2) | - | - | - | - | - | - | - | - | - | - |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

## C.1.1 Chemical Results - Final Validation Samples

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | Prothiofos | Ronnel | Trichloronate | Tetrachlorvinphos | Acenaphthene | Acenaphthylene | Benz(a)anthracene | Benzo(k)fluoranthene | Chrysene | Benzo(b+j)fluoranthene |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.05 | 0.2 | 0.2 | 0.2 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Remediation Criteria | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - |
| HS01_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.7 | 27 | Boundary | Final | Normal | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HS01_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS01_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.75 | 26.95 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS02_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.7 | 27 | Boundary | Final | Normal | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HS02_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS02_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.85 | 26.85 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS03_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.8 | 26.9 | Boundary | Final | Normal | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HS03_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS03_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS04_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.85 | 26.85 | Boundary | Final | Normal | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HS04_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS04_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS05_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HS05_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS05_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.95 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS06_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 1 | 26.7 | Boundary | Final | Normal | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HS06_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.2 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS06_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS07_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.95 | 26.75 | Boundary | Final | Normal | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HS07_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.2 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS07_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC03_230912 | 12/09/2023 | Headfort Street Boundary DUP | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Duplicate sample of HS07_NW_230912 | - | - | - | - | - | - | - | - | - | - |
| QC04_230912 | 12/09/2023 | Headfort Street Boundary TRIP | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Triplicate sample of HS07_NW_230912 | <0.05 | - | - | - | - | - | - | - | - | - |
| HS08_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HS08_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS08_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1 | 26.7 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS09_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 26.7 | 0.45 | 26.25 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS09_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 26.7 | 0.8 | 25.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS09_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 26.7 | 0.55 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.2 | 0.4 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.2 | 1 | 26.2 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC01-230918 | 18/09/2023 | Headfort Street Boundary DUP | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Duplicate sample of HS10_NW_230918 | - | - | - | - | - | - | - | - | - | - |
| QC02_230918 | 18/09/2023 | Headfort Street Boundary TRIP | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Triplicate sample of HS10_NW_230918 | - | - | - | - | - | - | - | - | - | - |
| HS10_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.2 | 0.1 | 27.1 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10A_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.3 | 0.4 | 26.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10A_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.3 | 1 | 26.3 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10A_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.3 | 0.7 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10A_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.3 | 0.1 | 27.2 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10B_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.2 | 0.3 | 26.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10B_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.2 | 1 | 26.2 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10B_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10B_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.2 | 0.1 | 27.1 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS11_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.8 | 0.9 | 26.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS11_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.8 | 1.1 | 26.7 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS11_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.8 | 0.95 | 26.85 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS12_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.5 | 0.95 | 26.55 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS12_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.5 | 1.1 | 26.4 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS12_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.5 | 1 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA01_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 27.1 | 0.05 | 27.05 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA01_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 27.1 | 0.2 | 26.9 | Boundary | Final | Normal | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HSA01_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 27.1 | 0.25 | 26.85 | Boundary | Final | Normal (Sample ID use by lab is HAS01_NW_2309 | - | - | - | - | - | - | - | - | - | - |
| HSA02_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA02_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA02_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA02_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26.8 | 0.2 | 26.6 | Boundary | Final | Normal | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HSA02_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26.8 | 0.25 | 26.55 | Boundary | Final | Normal (Sample ID use by lab is HAS02_NW_2309 | - | - | - | - | - | - | - | - | - | - |
| HSA03_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA03_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA03_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA03_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26.2 | 0.2 | 26 | Boundary | Final | Normal | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

## C.1.1 Chemical Results - Final Validation Samples

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | Prothiofos | Ronnel | Trichloronate | Tetrachlorvinphos | Acenaphthene | Acenaphthylene | Benz(a)anthracene | Benzo(k)fluoranthene | Chrysene | Benzo(b+j)fluoranthene |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | | | | | | | | | | | 0.05 | 0.2 | 0.2 | 0.2 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Remediation Criteria | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - |
| HSA03_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26.2 | 0.25 | 25.95 | Boundary | Final | Normal (Sample ID use by lab is HAS03_NW_2309 | - | - | - | - | - | - | - | - | - | - |
| HSA04_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26 | 0.05 | 25.95 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA04_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26 | 0.2 | 25.8 | Boundary | Final | Normal | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HSA04_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26 | 0.25 | 25.75 | Boundary | Final | Normal (Sample ID use by lab is HAS04_NW_2309 | - | - | - | - | - | - | - | - | - | - |
| HSB01_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26.7 | 0.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB01_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26.7 | 0.35 | 26.35 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB01_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26.7 | 0.5 | 26.2 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB01_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26.7 | 0.7 | 26 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB02_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26.6 | 0.1 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB02_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26.6 | 0.3 | 26.3 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB02_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26.6 | 0.4 | 26.2 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB02_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26.6 | 0.6 | 26 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB03_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26 | 0.1 | 25.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB03_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26 | 0.5 | 25.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB03_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26 | 0.6 | 25.4 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB03_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26 | 0.65 | 25.35 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB04_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 25.6 | 0.1 | 25.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB04_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 25.6 | 0.5 | 25.1 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB04_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 25.6 | 0.6 | 25 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB04_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 25.6 | 0.7 | 24.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB05_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 25.1 | 0.1 | 25 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB05_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 25.1 | 0.3 | 24.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB05_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 25.1 | 0.45 | 24.65 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB06_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 24.5 | 0.1 | 24.4 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB06_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC01_DUP_231016 | 16/10/2023 | Newdegate St Boundary DUP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Duplicate sampleof HSB06_ASH_231016 | - | - | - | - | - | - | - | - | - | - |
| QC02_Trip | 16/10/2023 | Newdegate St Boundary TRIP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Triplicate sample of HSB06_ASH_231016 | - | - | - | - | - | - | - | - | - | - |
| QC03_DUP_231016 | 16/10/2023 | Newdegate St Boundary DUP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Duplicate sampleof HSB06_ASH_231016 | - | - | - | - | - | - | - | - | - | - |
| QC04_Trip | 16/10/2023 | Newdegate St Boundary TRIP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Triplicate sample of HSB06_ASH_231016 | - | - | - | - | - | - | - | - | - | - |
| HSB06_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 24.5 | 0.7 | 23.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB06_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 24.5 | 0.9 | 23.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB07 | 26/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 24.2 | 0.1 | 24.1 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB08 | 18/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 23.5 | 0.2 | 23.3 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB18 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.4 | 0.15 | 23.25 | Boundary | Final | Normal | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HSB19 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.5 | 0.15 | 23.35 | Boundary | Final | Normal | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HSB20 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.6 | 0.15 | 23.45 | Boundary | Final | Normal | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HSB21 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.8 | 0.15 | 23.65 | Boundary | Final | Normal | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HSB22 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.8 | 0.15 | 23.65 | Boundary | Final | Normal | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HSB23 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HSB24 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HSB25 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HSB26 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HSB27 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Normal | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| QC101 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Duplicate of HSB27 | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| QC102 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Triplicate of HSB27 | - | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| DW-B1 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.7 | 0.3 | 24.4 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| DW-B2 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.7 | 0.3 | 24.4 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| DW-B3 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.5 | 0.3 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| DW-B4 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.5 | 0.3 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC106 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Duplicate sample of A1 | - | - | - | - | - | - | - | - | - | - |
| QC107 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Duplicate sample of A1 | - | - | - | - | - | - | - | - | - | - |
| QC107 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Triplicate sample of A1 | - | - | - | - | - | - | - | - | - | - |
| A2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.4 | 0.1 | 23.3 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.5 | 0.1 | 23.4 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.6 | 0.1 | 23.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.8 | 0.1 | 23.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.8 | 0.1 | 23.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |

## C.1.1 Chemical Results - Final Validation Samples

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | Prothiofos | Ronnel | Trichloronate | Tetrachlorvinphos | Acenaphthene | Acenaphthylene | Benz(a)anthracene | Benzo(k)fluoranthene | Chrysene | Benzo(b+j)fluoranthene |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.05 | 0.2 | 0.2 | 0.2 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Remediation Criteria | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - |
| A10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B1 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.1 | 0.1 | 24 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.1 | 0.1 | 24 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC108 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Duplicate sample of C3 | - | - | - | - | - | - | - | - | - | - |
| QC109 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Duplicate sample of C3 | - | - | - | - | - | - | - | - | - | - |
| QC109 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Triplicate sample of C3 | - | - | - | - | - | - | - | - | - | - |
| C4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C7 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC120 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Duplicate sample of C7 | - | - | - | - | - | - | - | - | - | - |
| QC121 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Duplicate sample of C7 | - | - | - | - | - | - | - | - | - | - |
| QC121 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Triplicate sample of C7 | - | - | - | - | - | - | - | - | - | - |
| C8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.7 | 0.1 | 24.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.4 | 0.1 | 24.3 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D4 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.4 | 0.1 | 24.3 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.5 | 0.1 | 24.4 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.7 | 0.1 | 24.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D8 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC116 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Duplicate sample of D10 | - | - | - | - | - | - | - | - | - | - |
| QC117 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Duplicate sample of D10 | - | - | - | - | - | - | - | - | - | - |
| QC117 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Triplicate sample of D10 | - | - | - | - | - | - | - | - | - | - |
| E1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.1 | 0.1 | 25 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E2 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E4 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC110 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Duplicate sample of E5 | - | - | - | - | - | - | - | - | - | - |
| QC111 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Duplicate sample of E5 | - | - | - | - | - | - | - | - | - | - |
| QC111 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Triplicate sample of E5 | - | - | - | - | - | - | - | - | - | - |
| E6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |

## C.1.1 Chemical Results - Final Validation Samples

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | Prothiofos | Ronnel | Trichloronate | Tetrachlorvinphos | Acenaphthene | Acenaphthylene | Benz(a)anthracene | Benzo(k)fluoranthene | Chrysene | Benzo(b+j)fluoranthene |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | | | | | | | | | | | 0.05 | 0.2 | 0.2 | 0.2 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Remediation Criteria | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - |
| E10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.5 | 0.1 | 25.4 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.4 | 0.1 | 25.3 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.4 | 0.1 | 25.3 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.6 | 0.1 | 25.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G3 | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC112 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Duplicate sample of G7 | - | - | - | - | - | - | - | - | - | - |
| QC113 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Duplicate sample of G7 | - | - | - | - | - | - | - | - | - | - |
| QC113 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Triplicate sample of G7 | - | - | - | - | - | - | - | - | - | - |
| G8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.3 | 0.1 | 26.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC118 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Duplicate sample of H1 | - | - | - | - | - | - | - | - | - | - |
| QC119 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Duplicate sample of H1 | - | - | - | - | - | - | - | - | - | - |
| QC119 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Triplicate sample of H1 | - | - | - | - | - | - | - | - | - | - |
| H2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.1 | 0.1 | 26 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.2 | 0.1 | 26.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.2 | 0.1 | 26.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC114 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | - | - | - | - | - | - | - | - | - | - |
| QC114 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | - | - | - | - | - | - | - | - | - | - |
| QC115 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | - | - | - | - | - | - | - | - | - | - |
| QC115 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Triplicate sampleof H9 | - | - | - | - | - | - | - | - | - | - |
| H10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.8 | 0.1 | 26.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26.8 | 0.1 | 26.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| TR01_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.55 | 24.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| TR02_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.35 | 24.85 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| TR03_TRENCH FLOOR_230921 | 21/09/2023 | Trench | Natural Ground | Floor | 25.2 | 0.6 | 24.6 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC14_230921 | 21/09/2023 | Trench DUP | Natural Ground | Floor | 25.1 | 0.6 | 24.5 | Trench | Final | Duplicate sample of TR03_TRENCH FLOOR_2309 | - | - | - | - | - | - | - | - | - | - |
| QC15_230921 | 21/09/2023 | Trench TRIP | Natural Ground | Floor | 25.2 | 0.6 | 24.6 | Trench | Final | Triplicate sample of TR03_TRENCHFLOOR_23092 | - | - | - | - | - | - | - | - | - | - |
| TR04_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.25 | 24.95 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| TR05_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.25 | 24.95 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| TR06_TRENCH FLOOR_230921 | 21/09/2023 | Trench | Natural Ground | Floor | 25.2 | 0.5 | 24.7 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T01_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.55 | 23.75 | Trench | Final | Normal (Sample ID used by lab is TS01_B) | - | - | - | - | - | - | - | - | - | - |
| T01_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.225 | 24.075 | Trench | Final | Normal (Sample ID used by lab is TS01_W1) | - | - | - | - | - | - | - | - | - | - |
| T01_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.22 | 24.08 | Trench | Final | Normal (Sample ID used by lab is TS01_W2) | - | - | - | - | - | - | - | - | - | - |
| T02_B | 18/10/2023 | Trench | Natural Ground | Floor | 24 | 0.5 | 23.5 | Trench | Final | Normal (Sample ID used by lab is TS02_B) | - | - | - | - | - | - | - | - | - | - |
| T02_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24 | 0.25 | 23.75 | Trench | Final | Normal (Sample ID used by lab is TS02_W1) | - | - | - | - | - | - | - | - | - | - |
| T02_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24 | 0.3 | 23.7 | Trench | Final | Normal (Sample ID used by lab is TS02_W2) | - | - | - | - | - | - | - | - | - | - |
| T03_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS03_B) | - | - | - | - | - | - | - | - | - | - |
| QC101 | 18/10/2023 | Trench DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Trench | Final | Duplicate sample of TS03_B | - | - | - | - | - | - | - | - | - | - |

## C.1.1 Chemical Results - Final Validation Samples

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | Prothiofos | Ronnel | Trichloronate | Tetrachlorvinphos | Acenaphthene | Acenaphthylene | Benz(a)anthracene | Benzo(k)fluoranthene | Chrysene | Benzo(b+j)fluoranthene |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.05 | 0.2 | 0.2 | 0.2 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Remediation Criteria | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - |
| QC102 | 18/10/2023 | Trench TRIP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Trench | Final | Triplicate sample of TS03_B | - | - | - | - | - | - | - | - | - | - |
| T03_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.35 | 23.55 | Trench | Final | Normal (Sample ID used by lab is TS03_W1) | - | - | - | - | - | - | - | - | - | - |
| T03_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.35 | 23.55 | Trench | Final | Normal (Sample ID used by lab is TS03_W2) | - | - | - | - | - | - | - | - | - | - |
| T04_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.6 | 0.55 | 23.05 | Trench | Final | Normal (Sample ID used by lab is TS04_B) | - | - | - | - | - | - | - | - | - | - |
| T04_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.6 | 0.32 | 23.28 | Trench | Final | Normal (Sample ID used by lab is TS04_W1) | - | - | - | - | - | - | - | - | - | - |
| T04_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.6 | 0.35 | 23.25 | Trench | Final | Normal (Sample ID used by lab is TS04_W2) | - | - | - | - | - | - | - | - | - | - |
| T05_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.55 | 22.85 | Trench | Final | Normal (Sample ID used by lab is TS05_B) | - | - | - | - | - | - | - | - | - | - |
| T05_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.4 | 23 | Trench | Final | Normal (Sample ID used by lab is TS05_W1) | - | - | - | - | - | - | - | - | - | - |
| QC103 | 18/10/2023 | Trench DUP | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Duplicate sample of TS05_W1 | - | - | - | - | - | - | - | - | - | - |
| QC104 | 18/10/2023 | Trench TRIP | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Triplicate sampleof TS05_W1 | - | - | - | - | - | - | - | - | - | - |
| T05_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS05_W2) | - | - | - | - | - | - | - | - | - | - |
| T06_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.5 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS06_B) | - | - | - | - | - | - | - | - | - | - |
| T06_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS06_W1) | - | - | - | - | - | - | - | - | - | - |
| T06_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS06_W2) | - | - | - | - | - | - | - | - | - | - |
| T07_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.5 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS07_B) | - | - | - | - | - | - | - | - | - | - |
| T07_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS07_W1) | - | - | - | - | - | - | - | - | - | - |
| T07_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS07_W2) | - | - | - | - | - | - | - | - | - | - |
| T08_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.55 | 22.85 | Trench | Final | Normal (Sample ID used by lab is TS08_B) | - | - | - | - | - | - | - | - | - | - |
| T08_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS08_W1) | - | - | - | - | - | - | - | - | - | - |
| T08_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.21 | 23.19 | Trench | Final | Normal (Sample ID used by lab is TS08_W2) | - | - | - | - | - | - | - | - | - | - |
| T09_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.6 | 22.8 | Trench | Final | Normal (Sample ID used by lab is TS09_B) | - | - | - | - | - | - | - | - | - | - |
| T09_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS09_W1) | - | - | - | - | - | - | - | - | - | - |
| T09_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.32 | 23.08 | Trench | Final | Normal (Sample ID used by lab is TS09_W2) | - | - | - | - | - | - | - | - | - | - |
| T10_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.5 | 0.6 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS10_B) | - | - | - | - | - | - | - | - | - | - |
| T10_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.5 | 0.3 | 23.2 | Trench | Final | Normal (Sample ID used by lab is TS10_W1) | - | - | - | - | - | - | - | - | - | - |
| T10_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.5 | 0.3 | 23.2 | Trench | Final | Normal (Sample ID used by lab is TS10_W2) | - | - | - | - | - | - | - | - | - | - |
| T11_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.7 | 0.6 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS11_B) | - | - | - | - | - | - | - | - | - | - |
| T11_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.7 | 0.3 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS11_W1) | - | - | - | - | - | - | - | - | - | - |
| T11_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.7 | 0.3 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS11_W2) | - | - | - | - | - | - | - | - | - | - |
| T12_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.6 | 23.3 | Trench | Final | Normal (Sample ID used by lab is TS12_B) | - | - | - | - | - | - | - | - | - | - |
| T12_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.3 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS12_W1) | - | - | - | - | - | - | - | - | - | - |
| T12_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.3 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS12_W2) | - | - | - | - | - | - | - | - | - | - |
| T13_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.6 | 23.7 | Trench | Final | Normal (Sample ID used by lab is TS13_B) | - | - | - | - | - | - | - | - | - | - |
| T13_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.3 | 24 | Trench | Final | Normal (Sample ID used by lab is TS13_W1) | - | - | - | - | - | - | - | - | - | - |
| T13_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.3 | 24 | Trench | Final | Normal (Sample ID used by lab is TS13_W2) | - | - | - | - | - | - | - | - | - | - |
| T14_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.9 | 0.6 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS14_B) | - | - | - | - | - | - | - | - | - | - |
| T14_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.9 | 0.3 | 24.6 | Trench | Final | Normal (Sample ID used by lab is TS14_W1) | - | - | - | - | - | - | - | - | - | - |
| T14_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.9 | 0.3 | 24.6 | Trench | Final | Normal (Sample ID used by lab is TS14_W2) | - | - | - | - | - | - | - | - | - | - |
| T15_B | 18/10/2023 | Trench | Natural Ground | Floor | 25 | 0.6 | 24.4 | Trench | Final | Normal (Sample ID used by lab is TS15_B) | - | - | - | - | - | - | - | - | - | - |
| T15_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 25 | 0.3 | 24.7 | Trench | Final | Normal (Sample ID used by lab is TS15_W1) | - | - | - | - | - | - | - | - | - | - |
| T15_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 25 | 0.3 | 24.7 | Trench | Final | Normal (Sample ID used by lab is TS15_W2) | - | - | - | - | - | - | - | - | - | - |
| T16_B | 18/10/2023 | Trench | Natural Ground | Floor | 25.7 | 0.6 | 25.1 | Trench | Final | Normal (Sample ID used by lab is TS16_B) | - | - | - | - | - | - | - | - | - | - |
| T16_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 25.7 | 0.3 | 25.4 | Trench | Final | Normal (Sample ID used by lab is TS16_W1) | - | - | - | - | - | - | - | - | - | - |
| T16_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 25.7 | 0.3 | 25.4 | Trench | Final | Normal (Sample ID used by lab is TS16_W2) | - | - | - | - | - | - | - | - | - | - |
| T17-B | 26/10/2023 | Trench | Natural Ground | Floor | 23.8 | 0.55 | 23.25 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T17-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 23.8 | 0.15 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T17-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 23.8 | 0.15 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T18-B | 26/10/2023 | Trench | Natural Ground | Floor | 24 | 0.55 | 23.45 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T18-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24 | 0.6 | 23.4 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T18-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.35 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T18-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.35 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T19-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.4 | 23.9 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T19-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.2 | 24.1 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T19-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.25 | 24.05 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T20-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.55 | 23.55 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T20-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T20-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.15 | 23.95 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T21-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.2 | 0.6 | 23.6 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T21-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24.2 | 0.6 | 23.6 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T21-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.2 | 0.25 | 23.95 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T21-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.2 | 0.3 | 23.9 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |

## C.1.1 Chemical Results - Final Validation Samples

| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | Prothiofos | Ronnel | Trichloronate | Tetrachlorvinphos | Acenaphthene | Acenaphthylene | Benz(a)anthracene | Benzo(k)fluoranthene | Chrysene | Benzo(b+j)fluoranthene |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.05 | 0.2 | 0.2 | 0.2 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Remediation Criteria | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - |
| T22-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.38 | 24.02 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24.4 | 0.38 | 24.02 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22_F_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.5 | 23.9 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22_WA_231016 | 16/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.15 | 24.25 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22_WB_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23-B | 26/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23_F_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23_WA_231016 | 16/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.2 | 23.7 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23_WB_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T24-B | 26/10/2023 | Trench | Natural Ground | Floor | 24 | 0.45 | 23.55 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T24-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24 | 0.45 | 23.55 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T24-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.15 | 23.85 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T24-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.15 | 23.85 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T25_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.6 | 0.6 | 24 | Trench | Final | Normal (Sample ID used by lab is TS25_B) | - | - | - | - | - | - | - | - | - | - |
| T25_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.6 | 0.3 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS25_W1) | - | - | - | - | - | - | - | - | - | - |
| T25_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.6 | 0.3 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS25_W2) | - | - | - | - | - | - | - | - | - | - |
| T26_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.45 | 23.65 | Trench | Final | Normal (Sample ID used by lab is TS26_B) | - | - | - | - | - | - | - | - | - | - |
| T26_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS26_W1) | - | - | - | - | - | - | - | - | - | - |
| T26_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS26_W2) | - | - | - | - | - | - | - | - | - | - |
| T27_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.5 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS27_B) | - | - | - | - | - | - | - | - | - | - |
| T27_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.19 | 23.91 | Trench | Final | Normal (Sample ID used by lab is TS27_W1) | - | - | - | - | - | - | - | - | - | - |
| T27_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS27_W2) | - | - | - | - | - | - | - | - | - | - |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

## C.1.1 Chemical Results - Final Validation Samples

| | | | | | | | | | | | Polycyclic Aromatic Hydrocarbons | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Dibenz(a,h)anthracene | Fluoranthene | Phenanthrene | PAHs (Sum of total) | Anthracene | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(g,h,i)perylene | Indeno(1,2,3-c,d)pyrene |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Remediation Criteria | | | | | | | | | | | - | - | - | 300 | - | 3 | 3 | 3 | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Ground Surface Elevation at Sample Location (m AHD)** | **Sample Depth (m bgs)** | **Sample Depth (m AHD)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | | |
| HS01_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.7 | 27 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 | <0.5 | <0.5 | <0.5 |
| HS01_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS01_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.75 | 26.95 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS02_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.7 | 27 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 | <0.5 | <0.5 | <0.5 |
| HS02_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS02_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.85 | 26.85 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS03_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.8 | 26.9 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 | <0.5 | <0.5 | <0.5 |
| HS03_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS03_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS04_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.85 | 26.85 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 | <0.5 | <0.5 | <0.5 |
| HS04_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS04_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS05_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 | <0.5 | <0.5 | <0.5 |
| HS05_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS05_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.95 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS06_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 1 | 26.7 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 | <0.5 | <0.5 | <0.5 |
| HS06_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.2 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS06_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS07_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.95 | 26.75 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 | <0.5 | <0.5 | <0.5 |
| HS07_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.2 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS07_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC03_230912 | 12/09/2023 | Headfort Street Boundary DUP | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Duplicate sample of HS07_NW_230912 | - | - | - | - | - | - | - | - | - | - |
| QC04_230912 | 12/09/2023 | Headfort Street Boundary TRIP | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Triplicate sample of HS07_NW_230912 | - | - | - | - | - | - | - | - | - | - |
| HS08_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 | <0.5 | <0.5 | <0.5 |
| HS08_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS08_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1 | 26.7 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS09_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 26.7 | 0.45 | 26.25 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS09_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 26.7 | 0.8 | 25.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS09_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 26.7 | 0.55 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.2 | 0.4 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.2 | 1 | 26.2 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC01-230918 | 18/09/2023 | Headfort Street Boundary DUP | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Duplicate sample of HS10_NW_230918 | - | - | - | - | - | - | - | - | - | - |
| QC02_230918 | 18/09/2023 | Headfort Street Boundary TRIP | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Triplicate sample of HS10_NW_230918 | - | - | - | - | - | - | - | - | - | - |
| HS10_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.2 | 0.1 | 27.1 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10A_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.3 | 0.4 | 26.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10A_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.3 | 1 | 26.3 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10A_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.3 | 0.7 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10A_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.3 | 0.1 | 27.2 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10B_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.2 | 0.3 | 26.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10B_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.2 | 1 | 26.2 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10B_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS10B_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.2 | 0.1 | 27.1 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS11_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.8 | 0.9 | 26.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS11_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.8 | 1.1 | 26.7 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS11_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.8 | 0.95 | 26.85 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS12_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.5 | 0.95 | 26.55 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS12_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.5 | 1.1 | 26.4 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HS12_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.5 | 1 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA01_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 27.1 | 0.05 | 27.05 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA01_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 27.1 | 0.2 | 26.9 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 | <0.5 | <0.5 | <0.5 |
| HSA01_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 27.1 | 0.25 | 26.85 | Boundary | Final | Normal (Sample ID use by lab is HAS01_NW_2309 | - | - | - | - | - | - | - | - | - | - |
| HSA02_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA02_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA02_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA02_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26.8 | 0.2 | 26.6 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 | <0.5 | <0.5 | <0.5 |
| HSA02_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26.8 | 0.25 | 26.55 | Boundary | Final | Normal (Sample ID use by lab is HAS02_NW_2309 | - | - | - | - | - | - | - | - | - | - |
| HSA03_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA03_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA03_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA03_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26.2 | 0.2 | 26 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 | <0.5 | <0.5 | <0.5 |

## C.1.1 Chemical Results - Final Validation Samples

| | | | | | | | | | | | Polycyclic Aromatic Hydrocarbons | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Dibenz(a,h)anthracene | Fluoranthene | Phenanthrene | PAHs (Sum of total) | Anthracene | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(g,h,i)perylene | Indeno(1,2,3-c,d)pyrene |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Remediation Criteria | | | | | | | | | | | - | - | - | 300 | - | 3 | 3 | 3 | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Ground Surface Elevation at Sample Location (m AHD)** | **Sample Depth (m bgs)** | **Sample Depth (m AHD)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | | |
| HSA03_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26.2 | 0.25 | 25.95 | Boundary | Final | Normal (Sample ID use by lab is HAS03_NW_2309 | - | - | - | - | - | - | - | - | - | - |
| HSA04_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26 | 0.05 | 25.95 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSA04_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26 | 0.2 | 25.8 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 | <0.5 | <0.5 | <0.5 |
| HSA04_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26 | 0.25 | 25.75 | Boundary | Final | Normal (Sample ID use by lab is HAS04_NW_2309 | - | - | - | - | - | - | - | - | - | - |
| HSB01_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26.7 | 0.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB01_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26.7 | 0.35 | 26.35 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB01_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26.7 | 0.5 | 26.2 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB01_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26.7 | 0.7 | 26 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB02_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26.6 | 0.1 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB02_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26.6 | 0.3 | 26.3 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB02_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26.6 | 0.4 | 26.2 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB02_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26.6 | 0.6 | 26 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB03_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26 | 0.1 | 25.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB03_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26 | 0.5 | 25.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB03_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26 | 0.6 | 25.4 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB03_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26 | 0.65 | 25.35 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB04_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 25.6 | 0.1 | 25.5 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB04_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 25.6 | 0.5 | 25.1 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB04_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 25.6 | 0.6 | 25 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB04_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 25.6 | 0.7 | 24.9 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB05_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 25.1 | 0.1 | 25 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB05_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 25.1 | 0.3 | 24.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB05_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 25.1 | 0.45 | 24.65 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB06_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 24.5 | 0.1 | 24.4 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB06_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC01_DUP_231016 | 16/10/2023 | Newdegate St Boundary DUP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Duplicate sampleof HSB06_ASH_231016 | - | - | - | - | - | - | - | - | - | - |
| QC02_Trip | 16/10/2023 | Newdegate St Boundary TRIP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Triplicate sample of HSB06_ASH_231016 | - | - | - | - | - | - | - | - | - | - |
| QC03_DUP_231016 | 16/10/2023 | Newdegate St Boundary DUP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Duplicate sampleof HSB06_ASH_231016 | - | - | - | - | - | - | - | - | - | - |
| QC04_Trip | 16/10/2023 | Newdegate St Boundary TRIP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Triplicate sample of HSB06_ASH_231016 | - | - | - | - | - | - | - | - | - | - |
| HSB06_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 24.5 | 0.7 | 23.8 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB06_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 24.5 | 0.9 | 23.6 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB07 | 26/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 24.2 | 0.1 | 24.1 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB08 | 18/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 23.5 | 0.2 | 23.3 | Boundary | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| HSB18 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.4 | 0.15 | 23.25 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 | <0.5 | <0.5 | <0.5 |
| HSB19 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.5 | 0.15 | 23.35 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 | <0.5 | <0.5 | <0.5 |
| HSB20 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.6 | 0.15 | 23.45 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 | <0.5 | <0.5 | <0.5 |
| HSB21 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.8 | 0.15 | 23.65 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 | <0.5 | <0.5 | <0.5 |
| HSB22 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.8 | 0.15 | 23.65 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 | <0.5 | <0.5 | <0.5 |
| HSB23 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 | <0.5 | <0.5 | <0.5 |
| HSB24 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 | <0.5 | <0.5 | <0.5 |
| HSB25 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 | <0.5 | <0.5 | <0.5 |
| HSB26 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 | <0.5 | <0.5 | <0.5 |
| HSB27 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 | <0.5 | <0.5 | <0.5 |
| QC101 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Duplicate of HSB27 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 | <0.5 | <0.5 | <0.5 |
| QC102 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Triplicate of HSB27 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 | <0.5 | <0.5 | <0.5 |
| DW-B1 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.7 | 0.3 | 24.4 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| DW-B2 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.7 | 0.3 | 24.4 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| DW-B3 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.5 | 0.3 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| DW-B4 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.5 | 0.3 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC106 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Duplicate sample of A1 | - | - | - | - | - | - | - | - | - | - |
| QC107 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Duplicate sample of A1 | - | - | - | - | - | - | - | - | - | - |
| QC107 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Triplicate sample of A1 | - | - | - | - | - | - | - | - | - | - |
| A2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.4 | 0.1 | 23.3 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.5 | 0.1 | 23.4 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.6 | 0.1 | 23.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.8 | 0.1 | 23.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.8 | 0.1 | 23.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |

## C.1.1 Chemical Results - Final Validation Samples

| | | | | | | | | | | | Polycyclic Aromatic Hydrocarbons | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Dibenz(a,h)anthracene | Fluoranthene | Phenanthrene | PAHs (Sum of total) | Anthracene | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(g,h,i)perylene | Indeno(1,2,3-c,d)pyrene |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Remediation Criteria | | | | | | | | | | | - | - | - | 300 | - | 3 | 3 | 3 | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Ground Surface Elevation at Sample Location (m AHD)** | **Sample Depth (m bgs)** | **Sample Depth (m AHD)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | | |
| A10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| A10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B1 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| B10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.1 | 0.1 | 24 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.1 | 0.1 | 24 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC108 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Duplicate sample of C3 | - | - | - | - | - | - | - | - | - | - |
| QC109 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Duplicate sample of C3 | - | - | - | - | - | - | - | - | - | - |
| QC109 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Triplicate sample of C3 | - | - | - | - | - | - | - | - | - | - |
| C4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C7 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC120 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Duplicate sample of C7 | - | - | - | - | - | - | - | - | - | - |
| QC121 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Duplicate sample of C7 | - | - | - | - | - | - | - | - | - | - |
| QC121 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Triplicate sample of C7 | - | - | - | - | - | - | - | - | - | - |
| C8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| C10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.7 | 0.1 | 24.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.4 | 0.1 | 24.3 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D4 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.4 | 0.1 | 24.3 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.5 | 0.1 | 24.4 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.7 | 0.1 | 24.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D8 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| D10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC116 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Duplicate sample of D10 | - | - | - | - | - | - | - | - | - | - |
| QC117 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Duplicate sample of D10 | - | - | - | - | - | - | - | - | - | - |
| QC117 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Triplicate sample of D10 | - | - | - | - | - | - | - | - | - | - |
| E1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.1 | 0.1 | 25 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E2 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E4 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC110 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Duplicate sample of E5 | - | - | - | - | - | - | - | - | - | - |
| QC111 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Duplicate sample of E5 | - | - | - | - | - | - | - | - | - | - |
| QC111 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Triplicate sample of E5 | - | - | - | - | - | - | - | - | - | - |
| E6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| E9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | Polycyclic Aromatic Hydrocarbons | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Dibenz(a,h)anthracene | Fluoranthene | Phenanthrene | PAHs (Sum of total) | Anthracene | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(g,h,i)perylene | Indeno(1,2,3-c,d)pyrene |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Remediation Criteria | | | | | | | | | | | - | - | - | 300 | - | 3 | 3 | 3 | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Ground Surface Elevation at Sample Location (m AHD)** | **Sample Depth (m bgs)** | **Sample Depth (m AHD)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | | |
| E10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.5 | 0.1 | 25.4 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.4 | 0.1 | 25.3 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.4 | 0.1 | 25.3 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| F10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.6 | 0.1 | 25.5 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G3 | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC112 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Duplicate sample of G7 | - | - | - | - | - | - | - | - | - | - |
| QC113 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Duplicate sample of G7 | - | - | - | - | - | - | - | - | - | - |
| QC113 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Triplicate sample of G7 | - | - | - | - | - | - | - | - | - | - |
| G8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| G10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.3 | 0.1 | 26.2 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC118 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Duplicate sample of H1 | - | - | - | - | - | - | - | - | - | - |
| QC119 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Duplicate sample of H1 | - | - | - | - | - | - | - | - | - | - |
| QC119 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Triplicate sample of H1 | - | - | - | - | - | - | - | - | - | - |
| H2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.1 | 0.1 | 26 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.2 | 0.1 | 26.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.2 | 0.1 | 26.1 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC114 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | - | - | - | - | - | - | - | - | - | - |
| QC114 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | - | - | - | - | - | - | - | - | - | - |
| QC115 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | - | - | - | - | - | - | - | - | - | - |
| QC115 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Triplicate sampleof H9 | - | - | - | - | - | - | - | - | - | - |
| H10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.8 | 0.1 | 26.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| H10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26.8 | 0.1 | 26.7 | Floor | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| TR01_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.55 | 24.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| TR02_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.35 | 24.85 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| TR03_TRENCH FLOOR_230921 | 21/09/2023 | Trench | Natural Ground | Floor | 25.2 | 0.6 | 24.6 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| QC14_230921 | 21/09/2023 | Trench DUP | Natural Ground | Floor | 25.1 | 0.6 | 24.5 | Trench | Final | Duplicate sample of TR03_TRENCH FLOOR_2309 | - | - | - | - | - | - | - | - | - | - |
| QC15_230921 | 21/09/2023 | Trench TRIP | Natural Ground | Floor | 25.2 | 0.6 | 24.6 | Trench | Final | Triplicate sample of TR03_TRENCHFLOOR_23092 | - | - | - | - | - | - | - | - | - | - |
| TR04_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.25 | 24.95 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| TR05_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.25 | 24.95 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| TR06_TRENCH FLOOR_230921 | 21/09/2023 | Trench | Natural Ground | Floor | 25.2 | 0.5 | 24.7 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T01_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.55 | 23.75 | Trench | Final | Normal (Sample ID used by lab is TS01_B) | - | - | - | - | - | - | - | - | - | - |
| T01_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.225 | 24.075 | Trench | Final | Normal (Sample ID used by lab is TS01_W1) | - | - | - | - | - | - | - | - | - | - |
| T01_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.22 | 24.08 | Trench | Final | Normal (Sample ID used by lab is TS01_W2) | - | - | - | - | - | - | - | - | - | - |
| T02_B | 18/10/2023 | Trench | Natural Ground | Floor | 24 | 0.5 | 23.5 | Trench | Final | Normal (Sample ID used by lab is TS02_B) | - | - | - | - | - | - | - | - | - | - |
| T02_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24 | 0.25 | 23.75 | Trench | Final | Normal (Sample ID used by lab is TS02_W1) | - | - | - | - | - | - | - | - | - | - |
| T02_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24 | 0.3 | 23.7 | Trench | Final | Normal (Sample ID used by lab is TS02_W2) | - | - | - | - | - | - | - | - | - | - |
| T03_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS03_B) | - | - | - | - | - | - | - | - | - | - |
| QC101 | 18/10/2023 | Trench DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Trench | Final | Duplicate sample of TS03_B | - | - | - | - | - | - | - | - | - | - |

## C.1.1 Chemical Results - Final Validation Samples

| | | | | | | | | | | | Polycyclic Aromatic Hydrocarbons | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Dibenz(a,h)anthracene | Fluoranthene | Phenanthrene | PAHs (Sum of total) | Anthracene | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(g,h,i)perylene | Indeno(1,2,3-c,d)pyrene |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Remediation Criteria | | | | | | | | | | | - | - | - | 300 | - | 3 | 3 | 3 | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Ground Surface Elevation at Sample Location (m AHD)** | **Sample Depth (m bgs)** | **Sample Depth (m AHD)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | | |
| QC102 | 18/10/2023 | Trench TRIP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Trench | Final | Triplicate sample of TS03_B | - | - | - | - | - | - | - | - | - | - |
| T03_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.35 | 23.55 | Trench | Final | Normal (Sample ID used by lab is TS03_W1) | - | - | - | - | - | - | - | - | - | - |
| T03_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.35 | 23.55 | Trench | Final | Normal (Sample ID used by lab is TS03_W2) | - | - | - | - | - | - | - | - | - | - |
| T04_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.6 | 0.55 | 23.05 | Trench | Final | Normal (Sample ID used by lab is TS04_B) | - | - | - | - | - | - | - | - | - | - |
| T04_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.6 | 0.32 | 23.28 | Trench | Final | Normal (Sample ID used by lab is TS04_W1) | - | - | - | - | - | - | - | - | - | - |
| T04_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.6 | 0.35 | 23.25 | Trench | Final | Normal (Sample ID used by lab is TS04_W2) | - | - | - | - | - | - | - | - | - | - |
| T05_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.55 | 22.85 | Trench | Final | Normal (Sample ID used by lab is TS05_B) | - | - | - | - | - | - | - | - | - | - |
| T05_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.4 | 23 | Trench | Final | Normal (Sample ID used by lab is TS05_W1) | - | - | - | - | - | - | - | - | - | - |
| QC103 | 18/10/2023 | Trench DUP | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Duplicate sample of TS05_W1 | - | - | - | - | - | - | - | - | - | - |
| QC104 | 18/10/2023 | Trench TRIP | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Triplicate sampleof TS05_W1 | - | - | - | - | - | - | - | - | - | - |
| T05_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS05_W2) | - | - | - | - | - | - | - | - | - | - |
| T06_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.5 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS06_B) | - | - | - | - | - | - | - | - | - | - |
| T06_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS06_W1) | - | - | - | - | - | - | - | - | - | - |
| T06_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS06_W2) | - | - | - | - | - | - | - | - | - | - |
| T07_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.5 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS07_B) | - | - | - | - | - | - | - | - | - | - |
| T07_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS07_W1) | - | - | - | - | - | - | - | - | - | - |
| T07_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS07_W2) | - | - | - | - | - | - | - | - | - | - |
| T08_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.55 | 22.85 | Trench | Final | Normal (Sample ID used by lab is TS08_B) | - | - | - | - | - | - | - | - | - | - |
| T08_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS08_W1) | - | - | - | - | - | - | - | - | - | - |
| T08_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.21 | 23.19 | Trench | Final | Normal (Sample ID used by lab is TS08_W2) | - | - | - | - | - | - | - | - | - | - |
| T09_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.6 | 22.8 | Trench | Final | Normal (Sample ID used by lab is TS09_B) | - | - | - | - | - | - | - | - | - | - |
| T09_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS09_W1) | - | - | - | - | - | - | - | - | - | - |
| T09_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.32 | 23.08 | Trench | Final | Normal (Sample ID used by lab is TS09_W2) | - | - | - | - | - | - | - | - | - | - |
| T10_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.5 | 0.6 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS10_B) | - | - | - | - | - | - | - | - | - | - |
| T10_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.5 | 0.3 | 23.2 | Trench | Final | Normal (Sample ID used by lab is TS10_W1) | - | - | - | - | - | - | - | - | - | - |
| T10_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.5 | 0.3 | 23.2 | Trench | Final | Normal (Sample ID used by lab is TS10_W2) | - | - | - | - | - | - | - | - | - | - |
| T11_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.7 | 0.6 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS11_B) | - | - | - | - | - | - | - | - | - | - |
| T11_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.7 | 0.3 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS11_W1) | - | - | - | - | - | - | - | - | - | - |
| T11_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.7 | 0.3 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS11_W2) | - | - | - | - | - | - | - | - | - | - |
| T12_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.6 | 23.3 | Trench | Final | Normal (Sample ID used by lab is TS12_B) | - | - | - | - | - | - | - | - | - | - |
| T12_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.3 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS12_W1) | - | - | - | - | - | - | - | - | - | - |
| T12_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.3 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS12_W2) | - | - | - | - | - | - | - | - | - | - |
| T13_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.6 | 23.7 | Trench | Final | Normal (Sample ID used by lab is TS13_B) | - | - | - | - | - | - | - | - | - | - |
| T13_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.3 | 24 | Trench | Final | Normal (Sample ID used by lab is TS13_W1) | - | - | - | - | - | - | - | - | - | - |
| T13_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.3 | 24 | Trench | Final | Normal (Sample ID used by lab is TS13_W2) | - | - | - | - | - | - | - | - | - | - |
| T14_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.9 | 0.6 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS14_B) | - | - | - | - | - | - | - | - | - | - |
| T14_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.9 | 0.3 | 24.6 | Trench | Final | Normal (Sample ID used by lab is TS14_W1) | - | - | - | - | - | - | - | - | - | - |
| T14_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.9 | 0.3 | 24.6 | Trench | Final | Normal (Sample ID used by lab is TS14_W2) | - | - | - | - | - | - | - | - | - | - |
| T15_B | 18/10/2023 | Trench | Natural Ground | Floor | 25 | 0.6 | 24.4 | Trench | Final | Normal (Sample ID used by lab is TS15_B) | - | - | - | - | - | - | - | - | - | - |
| T15_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 25 | 0.3 | 24.7 | Trench | Final | Normal (Sample ID used by lab is TS15_W1) | - | - | - | - | - | - | - | - | - | - |
| T15_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 25 | 0.3 | 24.7 | Trench | Final | Normal (Sample ID used by lab is TS15_W2) | - | - | - | - | - | - | - | - | - | - |
| T16_B | 18/10/2023 | Trench | Natural Ground | Floor | 25.7 | 0.6 | 25.1 | Trench | Final | Normal (Sample ID used by lab is TS16_B) | - | - | - | - | - | - | - | - | - | - |
| T16_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 25.7 | 0.3 | 25.4 | Trench | Final | Normal (Sample ID used by lab is TS16_W1) | - | - | - | - | - | - | - | - | - | - |
| T16_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 25.7 | 0.3 | 25.4 | Trench | Final | Normal (Sample ID used by lab is TS16_W2) | - | - | - | - | - | - | - | - | - | - |
| T17-B | 26/10/2023 | Trench | Natural Ground | Floor | 23.8 | 0.55 | 23.25 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T17-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 23.8 | 0.15 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T17-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 23.8 | 0.15 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T18-B | 26/10/2023 | Trench | Natural Ground | Floor | 24 | 0.55 | 23.45 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T18-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24 | 0.6 | 23.4 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T18-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.35 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T18-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.35 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T19-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.4 | 23.9 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T19-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.2 | 24.1 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T19-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.25 | 24.05 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T20-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.55 | 23.55 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T20-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T20-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.15 | 23.95 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T21-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.2 | 0.6 | 23.6 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T21-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24.2 | 0.6 | 23.6 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T21-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.2 | 0.25 | 23.95 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T21-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.2 | 0.3 | 23.9 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |

## C.1.1 Chemical Results - Final Validation Samples

| | | | | | | | | | | | Polycyclic Aromatic Hydrocarbons | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Dibenz(a,h)anthracene | Fluoranthene | Phenanthrene | PAHs (Sum of total) | Anthracene | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(g,h,i)perylene | Indeno(1,2,3-c,d)pyrene |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Remediation Criteria | | | | | | | | | | | - | - | - | 300 | - | 3 | 3 | 3 | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Ground Surface Elevation at Sample Location (m AHD)** | **Sample Depth (m bgs)** | **Sample Depth (m AHD)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | | |
| T22-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.38 | 24.02 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24.4 | 0.38 | 24.02 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22_F_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.5 | 23.9 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22_WA_231016 | 16/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.15 | 24.25 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T22_WB_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23-B | 26/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23_F_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23_WA_231016 | 16/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.2 | 23.7 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T23_WB_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T24-B | 26/10/2023 | Trench | Natural Ground | Floor | 24 | 0.45 | 23.55 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T24-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24 | 0.45 | 23.55 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T24-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.15 | 23.85 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T24-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.15 | 23.85 | Trench | Final | Normal | - | - | - | - | - | - | - | - | - | - |
| T25_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.6 | 0.6 | 24 | Trench | Final | Normal (Sample ID used by lab is TS25_B) | - | - | - | - | - | - | - | - | - | - |
| T25_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.6 | 0.3 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS25_W1) | - | - | - | - | - | - | - | - | - | - |
| T25_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.6 | 0.3 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS25_W2) | - | - | - | - | - | - | - | - | - | - |
| T26_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.45 | 23.65 | Trench | Final | Normal (Sample ID used by lab is TS26_B) | - | - | - | - | - | - | - | - | - | - |
| T26_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS26_W1) | - | - | - | - | - | - | - | - | - | - |
| T26_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS26_W2) | - | - | - | - | - | - | - | - | - | - |
| T27_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.5 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS27_B) | - | - | - | - | - | - | - | - | - | - |
| T27_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.19 | 23.91 | Trench | Final | Normal (Sample ID used by lab is TS27_W1) | - | - | - | - | - | - | - | - | - | - |
| T27_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS27_W2) | - | - | - | - | - | - | - | - | - | - |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

## C.1.1 Chemical Results - Final Validation Samples

| | | | | | | | | | | | | | | | Pesticides | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Pyrene | Naphthalene | Benzo(a) pyrene | Fluorene | Demeton-S-methyl | Fenamiphos | Pirimphos-ethyl |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.05 | 0.05 | 0.05 |
| Remediation Criteria | | | | | | | | | | | - | - | - | - | - | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Ground Surface Elevation at Sample Location (m AHD)** | **Sample Depth (m bgs)** | **Sample Depth (m AHD)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | |
| HS01_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.7 | 27 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - |
| HS01_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS01_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.75 | 26.95 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS02_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.7 | 27 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - |
| HS02_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS02_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.85 | 26.85 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS03_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.8 | 26.9 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - |
| HS03_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS03_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS04_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.85 | 26.85 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - |
| HS04_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS04_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS05_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - |
| HS05_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS05_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 0.95 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS06_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 1 | 26.7 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - |
| HS06_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.2 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS06_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS07_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.95 | 26.75 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - |
| HS07_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.2 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS07_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| QC03_230912 | 12/09/2023 | Headfort Street Boundary DUP | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Duplicate sample of HS07_NW_230912 | - | - | - | - | - | - | - |
| QC04_230912 | 12/09/2023 | Headfort Street Boundary TRIP | Natural Ground | Wall | 27.7 | 1.1 | 26.6 | Boundary | Final | Triplicate sample of HS07_NW_230912 | - | - | - | - | <0.05 | <0.05 | <0.05 |
| HS08_ASH_230912 | 12/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.7 | 0.9 | 26.8 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - |
| HS08_F_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.7 | 1.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS08_NW_230912 | 12/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.7 | 1 | 26.7 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS09_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 26.7 | 0.45 | 26.25 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS09_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 26.7 | 0.8 | 25.9 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS09_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 26.7 | 0.55 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS10_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.2 | 0.4 | 26.8 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS10_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.2 | 1 | 26.2 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS10_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| QC01-230918 | 18/09/2023 | Headfort Street Boundary DUP | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Duplicate sample of HS10_NW_230918 | - | - | - | - | - | - | - |
| QC02_230918 | 18/09/2023 | Headfort Street Boundary TRIP | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Triplicate sample of HS10_NW_230918 | - | - | - | - | - | - | - |
| HS10_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.2 | 0.1 | 27.1 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS10A_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.3 | 0.4 | 26.9 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS10A_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.3 | 1 | 26.3 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS10A_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.3 | 0.7 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS10A_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.3 | 0.1 | 27.2 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS10B_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.2 | 0.3 | 26.9 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS10B_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.2 | 1 | 26.2 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS10B_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.2 | 0.7 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS10B_TS_230918 | 18/09/2023 | Headfort Street Boundary | Topsoil | Wall | 27.2 | 0.1 | 27.1 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS11_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.8 | 0.9 | 26.9 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS11_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.8 | 1.1 | 26.7 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS11_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.8 | 0.95 | 26.85 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS12_ASH_230918 | 18/09/2023 | Headfort Street Boundary | Ash Fill | Wall | 27.5 | 0.95 | 26.55 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS12_FLOOR_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Floor | 27.5 | 1.1 | 26.4 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HS12_NW_230918 | 18/09/2023 | Headfort Street Boundary | Natural Ground | Wall | 27.5 | 1 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSA01_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 27.1 | 0.05 | 27.05 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSA01_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 27.1 | 0.2 | 26.9 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - |
| HSA01_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 27.1 | 0.25 | 26.85 | Boundary | Final | Normal (Sample ID use by lab is HAS01_NW_2309 | - | - | - | - | - | - | - |
| HSA02_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSA02_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSA02_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.8 | 0.05 | 26.75 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSA02_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26.8 | 0.2 | 26.6 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - |
| HSA02_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26.8 | 0.25 | 26.55 | Boundary | Final | Normal (Sample ID use by lab is HAS02_NW_2309 | - | - | - | - | - | - | - |
| HSA03_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSA03_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSA03_TS_230920 (Rebatch As | 20/09/2023 | Eastern Boundary (Rebatch) | Topsoil | Wall | 26.2 | 0.05 | 26.15 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSA03_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26.2 | 0.2 | 26 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - |

## C.1.1 Chemical Results - Final Validation Samples

| | | | | | | | | | | | | | | | | Pesticides | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Pyrene | Naphthalene | Benzo(a) pyrene | Fluorene | Demeton-S-methyl | Fenamiphos | Pirimphos-ethyl |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.05 | 0.05 | 0.05 |
| Remediation Criteria | | | | | | | | | | | - | - | - | - | - | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Ground Surface Elevation at Sample Location (m AHD)** | **Sample Depth (m bgs)** | **Sample Depth (m AHD)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | |
| HSA03_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26.2 | 0.25 | 25.95 | Boundary | Final | Normal (Sample ID use by lab is HAS03_NW_2309 | - | - | - | - | - | - | - |
| HSA04_TS_230920 | 20/09/2023 | Eastern Boundary | Topsoil | Wall | 26 | 0.05 | 25.95 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSA04_FILL_230920 | 20/09/2023 | Eastern Boundary | Fill | Wall | 26 | 0.2 | 25.8 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - |
| HSA04_NW_230920 | 20/09/2023 | Eastern Boundary | Natural Ground | Wall | 26 | 0.25 | 25.75 | Boundary | Final | Normal (Sample ID use by lab is HAS04_NW_2309 | - | - | - | - | - | - | - |
| HSB01_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26.7 | 0.1 | 26.6 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSB01_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26.7 | 0.35 | 26.35 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSB01_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26.7 | 0.5 | 26.2 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSB01_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26.7 | 0.7 | 26 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSB02_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26.6 | 0.1 | 26.5 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSB02_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26.6 | 0.3 | 26.3 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSB02_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26.6 | 0.4 | 26.2 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSB02_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26.6 | 0.6 | 26 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSB03_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 26 | 0.1 | 25.9 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSB03_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 26 | 0.5 | 25.5 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSB03_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 26 | 0.6 | 25.4 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSB03_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 26 | 0.65 | 25.35 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSB04_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 25.6 | 0.1 | 25.5 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSB04_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 25.6 | 0.5 | 25.1 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSB04_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 25.6 | 0.6 | 25 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSB04_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 25.6 | 0.7 | 24.9 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSB05_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 25.1 | 0.1 | 25 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSB05_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 25.1 | 0.3 | 24.8 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSB05_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 25.1 | 0.45 | 24.65 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSB06_TS_231016 | 16/10/2023 | Newdegate St Boundary | Topsoil | Wall | 24.5 | 0.1 | 24.4 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSB06_ASH_231016 | 16/10/2023 | Newdegate St Boundary | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| QC01_DUP_231016 | 16/10/2023 | Newdegate St Boundary DUP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Duplicate sampleof HSB06_ASH_231016 | - | - | - | - | - | - | - |
| QC02_Trip | 16/10/2023 | Newdegate St Boundary TRIP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Triplicate sample of HSB06_ASH_231016 | - | - | - | - | - | - | - |
| QC03_DUP_231016 | 16/10/2023 | Newdegate St Boundary DUP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Duplicate sampleof HSB06_ASH_231016 | - | - | - | - | - | - | - |
| QC04_Trip | 16/10/2023 | Newdegate St Boundary TRIP | Ash Fill | Wall | 24.5 | 0.55 | 23.95 | Boundary | Final | Triplicate sample of HSB06_ASH_231016 | - | - | - | - | - | - | - |
| HSB06_NW_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 24.5 | 0.7 | 23.8 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSB06_F_231016 | 16/10/2023 | Newdegate St Boundary | Natural Ground | Floor | 24.5 | 0.9 | 23.6 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSB07 | 26/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 24.2 | 0.1 | 24.1 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSB08 | 18/10/2023 | Newdegate St Boundary | Natural Ground | Wall | 23.5 | 0.2 | 23.3 | Boundary | Final | Normal | - | - | - | - | - | - | - |
| HSB18 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.4 | 0.15 | 23.25 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - |
| HSB19 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.5 | 0.15 | 23.35 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - |
| HSB20 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.6 | 0.15 | 23.45 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - |
| HSB21 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.8 | 0.15 | 23.65 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - |
| HSB22 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.8 | 0.15 | 23.65 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - |
| HSB23 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - |
| HSB24 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - |
| HSB25 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - |
| HSB26 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 23.9 | 0.15 | 23.75 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - |
| HSB27 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - |
| QC101 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Duplicate of HSB27 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - |
| QC102 | 14/12/2023 | Northern Boundary | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Boundary | Final | Triplicate of HSB27 | <0.5 | <0.5 | <0.5 | <0.5 | - | - | - |
| DW-B1 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.7 | 0.3 | 24.4 | Floor | Final | Normal | - | - | - | - | - | - | - |
| DW-B2 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.7 | 0.3 | 24.4 | Floor | Final | Normal | - | - | - | - | - | - | - |
| DW-B3 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.5 | 0.3 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - |
| DW-B4 | 18/10/2023 | Driveway | Natural Ground | Floor | 24.5 | 0.3 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - |
| A1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | - | - | - | - | - | - | - |
| QC106 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Duplicate sample of A1 | - | - | - | - | - | - | - |
| QC107 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Duplicate sample of A1 | - | - | - | - | - | - | - |
| QC107 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 23.3 | 0.15 | 23.15 | Floor | Final | Triplicate sample of A1 | - | - | - | - | - | - | - |
| A2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.4 | 0.1 | 23.3 | Floor | Final | Normal | - | - | - | - | - | - | - |
| A3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | - | - | - | - | - | - | - |
| A4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.5 | 0.1 | 23.4 | Floor | Final | Normal | - | - | - | - | - | - | - |
| A5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.3 | 0.1 | 23.2 | Floor | Final | Normal | - | - | - | - | - | - | - |
| A6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.6 | 0.1 | 23.5 | Floor | Final | Normal | - | - | - | - | - | - | - |
| A7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.8 | 0.1 | 23.7 | Floor | Final | Normal | - | - | - | - | - | - | - |
| A8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | - | - | - | - | - | - |
| A9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.8 | 0.1 | 23.7 | Floor | Final | Normal | - | - | - | - | - | - | - |

## C.1.1 Chemical Results - Final Validation Samples

| | | | | | | | | | | | | | | | Pesticides | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Pyrene | Naphthalene | Benzo(a) pyrene | Fluorene | Demeton-S-methyl | Fenamiphos | Pirimphos-ethyl |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.05 | 0.05 | 0.05 |
| Remediation Criteria | | | | | | | | | | | - | - | - | - | - | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Ground Surface Elevation at Sample Location (m AHD)** | **Sample Depth (m bgs)** | **Sample Depth (m AHD)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | |
| A10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | - | - | - | - | - | - |
| A10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | - | - | - | - | - | - |
| B1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - |
| B1 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - |
| B2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - |
| B3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - |
| B4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - |
| B5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | - | - | - | - | - | - |
| B6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - |
| B7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - |
| B8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - |
| B9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.7 | 0.1 | 23.6 | Floor | Final | Normal | - | - | - | - | - | - | - |
| B10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - |
| C1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.1 | 0.1 | 24 | Floor | Final | Normal | - | - | - | - | - | - | - |
| C2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - |
| C3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.1 | 0.1 | 24 | Floor | Final | Normal | - | - | - | - | - | - | - |
| QC108 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Duplicate sample of C3 | - | - | - | - | - | - | - |
| QC109 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Duplicate sample of C3 | - | - | - | - | - | - | - |
| QC109 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Floor | Final | Triplicate sample of C3 | - | - | - | - | - | - | - |
| C4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - |
| C5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - |
| C6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - |
| C7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - |
| C7 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - |
| QC120 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Duplicate sample of C7 | - | - | - | - | - | - | - |
| QC121 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Duplicate sample of C7 | - | - | - | - | - | - | - |
| QC121 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24 | 0.15 | 23.85 | Floor | Final | Triplicate sample of C7 | - | - | - | - | - | - | - |
| C8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | - | - | - | - | - | - |
| C9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 23.9 | 0.1 | 23.8 | Floor | Final | Normal | - | - | - | - | - | - | - |
| C10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | - | - | - | - | - | - | - |
| C10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | - | - | - | - | - | - | - |
| D1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.7 | 0.1 | 24.6 | Floor | Final | Normal | - | - | - | - | - | - | - |
| D2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - |
| D3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.2 | 0.1 | 24.1 | Floor | Final | Normal | - | - | - | - | - | - | - |
| D4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.4 | 0.1 | 24.3 | Floor | Final | Normal | - | - | - | - | - | - | - |
| D4 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.4 | 0.1 | 24.3 | Floor | Final | Normal | - | - | - | - | - | - | - |
| D5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.5 | 0.1 | 24.4 | Floor | Final | Normal | - | - | - | - | - | - | - |
| D6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24 | 0.1 | 23.9 | Floor | Final | Normal | - | - | - | - | - | - | - |
| D7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.7 | 0.1 | 24.6 | Floor | Final | Normal | - | - | - | - | - | - | - |
| D8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - |
| D8 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - |
| D9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.3 | 0.1 | 24.2 | Floor | Final | Normal | - | - | - | - | - | - | - |
| D10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | - | - | - | - | - | - |
| D10 (Rebatch Hg) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | - | - | - | - | - | - |
| QC116 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Duplicate sample of D10 | - | - | - | - | - | - | - |
| QC117 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Duplicate sample of D10 | - | - | - | - | - | - | - |
| QC117 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 25.2 | 0.15 | 25.05 | Floor | Final | Triplicate sample of D10 | - | - | - | - | - | - | - |
| E1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.1 | 0.1 | 25 | Floor | Final | Normal | - | - | - | - | - | - | - |
| E2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - |
| E2 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - |
| E3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | - | - | - | - | - | - |
| E4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - |
| E4 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 24.8 | 0.1 | 24.7 | Floor | Final | Normal | - | - | - | - | - | - | - |
| E5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.9 | 0.1 | 24.8 | Floor | Final | Normal | - | - | - | - | - | - | - |
| QC110 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Duplicate sample of E5 | - | - | - | - | - | - | - |
| QC111 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Duplicate sample of E5 | - | - | - | - | - | - | - |
| QC111 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 24.9 | 0.15 | 24.75 | Floor | Final | Triplicate sample of E5 | - | - | - | - | - | - | - |
| E6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | - | - | - | - | - | - | - |
| E7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | - | - | - | - | - | - | - |
| E8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25 | 0.1 | 24.9 | Floor | Final | Normal | - | - | - | - | - | - | - |
| E9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 24.6 | 0.1 | 24.5 | Floor | Final | Normal | - | - | - | - | - | - | - |

| | | | | | | | | | | | | | | | | Pesticides | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Pyrene | Naphthalene | Benzo(a) pyrene | Fluorene | Demeton-S-methyl | Fenamiphos | Pirimphos-ethyl |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | | | | | | | | | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.05 | 0.05 | 0.05 |
| Remediation Criteria | | | | | | | | | | | - | - | - | - | - | - | - |
| Field ID | Date | Sample Area | Material Type | Sample Location | Ground Surface Elevation at Sample Location (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Main Grouping | Final/Redundant | Sample Type | | | | | | | |
| E10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - |
| F1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.5 | 0.1 | 25.4 | Floor | Final | Normal | - | - | - | - | - | - | - |
| F2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | - | - | - | - | - | - |
| F3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.2 | 0.1 | 25.1 | Floor | Final | Normal | - | - | - | - | - | - | - |
| F4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | - | - | - | - | - | - |
| F5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | - | - | - | - | - | - |
| F6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.4 | 0.1 | 25.3 | Floor | Final | Normal | - | - | - | - | - | - | - |
| F7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | - | - | - | - | - | - |
| F8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.3 | 0.1 | 25.2 | Floor | Final | Normal | - | - | - | - | - | - | - |
| F9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.4 | 0.1 | 25.3 | Floor | Final | Normal | - | - | - | - | - | - | - |
| F10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | - | - | - | - | - | - |
| F10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | - | - | - | - | - | - |
| G1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | - | - | - | - | - | - |
| G2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.6 | 0.1 | 25.5 | Floor | Final | Normal | - | - | - | - | - | - | - |
| G3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - |
| G3 | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - |
| G4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | - | - | - | - | - | - |
| G5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | - | - | - | - | - | - |
| G6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - |
| G7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.8 | 0.1 | 25.7 | Floor | Final | Normal | - | - | - | - | - | - | - |
| QC112 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Duplicate sample of G7 | - | - | - | - | - | - | - |
| QC113 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Duplicate sample of G7 | - | - | - | - | - | - | - |
| QC113 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 25.8 | 0.15 | 25.65 | Floor | Final | Triplicate sample of G7 | - | - | - | - | - | - | - |
| G8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | - | - | - | - | - | - |
| G9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.7 | 0.1 | 25.6 | Floor | Final | Normal | - | - | - | - | - | - | - |
| G10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - |
| G10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - |
| H1 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.3 | 0.1 | 26.2 | Floor | Final | Normal | - | - | - | - | - | - | - |
| QC118 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Duplicate sample of H1 | - | - | - | - | - | - | - |
| QC119 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Duplicate sample of H1 | - | - | - | - | - | - | - |
| QC119 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 26.3 | 0.15 | 26.15 | Floor | Final | Triplicate sample of H1 | - | - | - | - | - | - | - |
| H2 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - |
| H3 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.1 | 0.1 | 26 | Floor | Final | Normal | - | - | - | - | - | - | - |
| H4 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - |
| H5 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - |
| H6 | 26/10/2023 | Final Floor | Natural Ground | Floor | 25.9 | 0.1 | 25.8 | Floor | Final | Normal | - | - | - | - | - | - | - |
| H7 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26 | 0.1 | 25.9 | Floor | Final | Normal | - | - | - | - | - | - | - |
| H8 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.2 | 0.1 | 26.1 | Floor | Final | Normal | - | - | - | - | - | - | - |
| H9 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.2 | 0.1 | 26.1 | Floor | Final | Normal | - | - | - | - | - | - | - |
| QC114 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | - | - | - | - | - | - | - |
| QC114 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | - | - | - | - | - | - | - |
| QC115 | 26/10/2023 | Final Floor DUP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Duplicate sample of H9 | - | - | - | - | - | - | - |
| QC115 | 26/10/2023 | Final Floor TRIP | Natural Ground | Floor | 26.2 | 0.15 | 26.05 | Floor | Final | Triplicate sampleof H9 | - | - | - | - | - | - | - |
| H10 | 26/10/2023 | Final Floor | Natural Ground | Floor | 26.8 | 0.1 | 26.7 | Floor | Final | Normal | - | - | - | - | - | - | - |
| H10 (Rebatch Cr VI) | 26/10/2023 | Final Floor (Rebatch) | Natural Ground | Floor | 26.8 | 0.1 | 26.7 | Floor | Final | Normal | - | - | - | - | - | - | - |
| TR01_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.55 | 24.65 | Trench | Final | Normal | - | - | - | - | - | - | - |
| TR02_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.35 | 24.85 | Trench | Final | Normal | - | - | - | - | - | - | - |
| TR03_TRENCH FLOOR_230921 | 21/09/2023 | Trench | Natural Ground | Floor | 25.2 | 0.6 | 24.6 | Trench | Final | Normal | - | - | - | - | - | - | - |
| QC14_230921 | 21/09/2023 | Trench DUP | Natural Ground | Floor | 25.1 | 0.6 | 24.5 | Trench | Final | Duplicate sample of TR03_TRENCH FLOOR_2309 | - | - | - | - | - | - | - |
| QC15_230921 | 21/09/2023 | Trench TRIP | Natural Ground | Floor | 25.2 | 0.6 | 24.6 | Trench | Final | Triplicate sample of TR03_TRENCHFLOOR_23092 | - | - | - | - | - | - | - |
| TR04_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.25 | 24.95 | Trench | Final | Normal | - | - | - | - | - | - | - |
| TR05_TRENCH WALL_230921 | 21/09/2023 | Trench | Natural Ground | Wall | 25.2 | 0.25 | 24.95 | Trench | Final | Normal | - | - | - | - | - | - | - |
| TR06_TRENCH FLOOR_230921 | 21/09/2023 | Trench | Natural Ground | Floor | 25.2 | 0.5 | 24.7 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T01_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.55 | 23.75 | Trench | Final | Normal (Sample ID used by lab is TS01_B) | - | - | - | - | - | - | - |
| T01_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.225 | 24.075 | Trench | Final | Normal (Sample ID used by lab is TS01_W1) | - | - | - | - | - | - | - |
| T01_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.22 | 24.08 | Trench | Final | Normal (Sample ID used by lab is TS01_W2) | - | - | - | - | - | - | - |
| T02_B | 18/10/2023 | Trench | Natural Ground | Floor | 24 | 0.5 | 23.5 | Trench | Final | Normal (Sample ID used by lab is TS02_B) | - | - | - | - | - | - | - |
| T02_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24 | 0.25 | 23.75 | Trench | Final | Normal (Sample ID used by lab is TS02_W1) | - | - | - | - | - | - | - |
| T02_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24 | 0.3 | 23.7 | Trench | Final | Normal (Sample ID used by lab is TS02_W2) | - | - | - | - | - | - | - |
| T03_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS03_B) | - | - | - | - | - | - | - |
| QC101 | 18/10/2023 | Trench DUP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Trench | Final | Duplicate sample of TS03_B | - | - | - | - | - | - | - |

## C.1.1 Chemical Results - Final Validation Samples

| | | | | | | | | | | | | | | | | Pesticides | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Pyrene | Naphthalene | Benzo(a) pyrene | Fluorene | Demeton-S-methyl | Fenamiphos | Pirimphos-ethyl |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.05 | 0.05 | 0.05 |
| Remediation Criteria | | | | | | | | | | | - | - | - | - | - | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Ground Surface Elevation at Sample Location (m AHD)** | **Sample Depth (m bgs)** | **Sample Depth (m AHD)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | |
| QC102 | 18/10/2023 | Trench TRIP | Natural Ground | Floor | 24.1 | 0.15 | 23.95 | Trench | Final | Triplicate sample of TS03_B | - | - | - | - | - | - | - |
| T03_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.35 | 23.55 | Trench | Final | Normal (Sample ID used by lab is TS03_W1) | - | - | - | - | - | - | - |
| T03_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.35 | 23.55 | Trench | Final | Normal (Sample ID used by lab is TS03_W2) | - | - | - | - | - | - | - |
| T04_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.6 | 0.55 | 23.05 | Trench | Final | Normal (Sample ID used by lab is TS04_B) | - | - | - | - | - | - | - |
| T04_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.6 | 0.32 | 23.28 | Trench | Final | Normal (Sample ID used by lab is TS04_W1) | - | - | - | - | - | - | - |
| T04_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.6 | 0.35 | 23.25 | Trench | Final | Normal (Sample ID used by lab is TS04_W2) | - | - | - | - | - | - | - |
| T05_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.55 | 22.85 | Trench | Final | Normal (Sample ID used by lab is TS05_B) | - | - | - | - | - | - | - |
| T05_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.4 | 23 | Trench | Final | Normal (Sample ID used by lab is TS05_W1) | - | - | - | - | - | - | - |
| QC103 | 18/10/2023 | Trench DUP | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Duplicate sample of TS05_W1 | - | - | - | - | - | - | - |
| QC104 | 18/10/2023 | Trench TRIP | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Triplicate sampleof TS05_W1 | - | - | - | - | - | - | - |
| T05_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS05_W2) | - | - | - | - | - | - | - |
| T06_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.5 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS06_B) | - | - | - | - | - | - | - |
| T06_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS06_W1) | - | - | - | - | - | - | - |
| T06_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS06_W2) | - | - | - | - | - | - | - |
| T07_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.5 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS07_B) | - | - | - | - | - | - | - |
| T07_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS07_W1) | - | - | - | - | - | - | - |
| T07_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.25 | 23.15 | Trench | Final | Normal (Sample ID used by lab is TS07_W2) | - | - | - | - | - | - | - |
| T08_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.55 | 22.85 | Trench | Final | Normal (Sample ID used by lab is TS08_B) | - | - | - | - | - | - | - |
| T08_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS08_W1) | - | - | - | - | - | - | - |
| T08_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.21 | 23.19 | Trench | Final | Normal (Sample ID used by lab is TS08_W2) | - | - | - | - | - | - | - |
| T09_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.4 | 0.6 | 22.8 | Trench | Final | Normal (Sample ID used by lab is TS09_B) | - | - | - | - | - | - | - |
| T09_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.3 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS09_W1) | - | - | - | - | - | - | - |
| T09_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.4 | 0.32 | 23.08 | Trench | Final | Normal (Sample ID used by lab is TS09_W2) | - | - | - | - | - | - | - |
| T10_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.5 | 0.6 | 22.9 | Trench | Final | Normal (Sample ID used by lab is TS10_B) | - | - | - | - | - | - | - |
| T10_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.5 | 0.3 | 23.2 | Trench | Final | Normal (Sample ID used by lab is TS10_W1) | - | - | - | - | - | - | - |
| T10_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.5 | 0.3 | 23.2 | Trench | Final | Normal (Sample ID used by lab is TS10_W2) | - | - | - | - | - | - | - |
| T11_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.7 | 0.6 | 23.1 | Trench | Final | Normal (Sample ID used by lab is TS11_B) | - | - | - | - | - | - | - |
| T11_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.7 | 0.3 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS11_W1) | - | - | - | - | - | - | - |
| T11_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.7 | 0.3 | 23.4 | Trench | Final | Normal (Sample ID used by lab is TS11_W2) | - | - | - | - | - | - | - |
| T12_B | 18/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.6 | 23.3 | Trench | Final | Normal (Sample ID used by lab is TS12_B) | - | - | - | - | - | - | - |
| T12_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.3 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS12_W1) | - | - | - | - | - | - | - |
| T12_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.3 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS12_W2) | - | - | - | - | - | - | - |
| T13_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.6 | 23.7 | Trench | Final | Normal (Sample ID used by lab is TS13_B) | - | - | - | - | - | - | - |
| T13_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.3 | 24 | Trench | Final | Normal (Sample ID used by lab is TS13_W1) | - | - | - | - | - | - | - |
| T13_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.3 | 24 | Trench | Final | Normal (Sample ID used by lab is TS13_W2) | - | - | - | - | - | - | - |
| T14_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.9 | 0.6 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS14_B) | - | - | - | - | - | - | - |
| T14_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.9 | 0.3 | 24.6 | Trench | Final | Normal (Sample ID used by lab is TS14_W1) | - | - | - | - | - | - | - |
| T14_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.9 | 0.3 | 24.6 | Trench | Final | Normal (Sample ID used by lab is TS14_W2) | - | - | - | - | - | - | - |
| T15_B | 18/10/2023 | Trench | Natural Ground | Floor | 25 | 0.6 | 24.4 | Trench | Final | Normal (Sample ID used by lab is TS15_B) | - | - | - | - | - | - | - |
| T15_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 25 | 0.3 | 24.7 | Trench | Final | Normal (Sample ID used by lab is TS15_W1) | - | - | - | - | - | - | - |
| T15_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 25 | 0.3 | 24.7 | Trench | Final | Normal (Sample ID used by lab is TS15_W2) | - | - | - | - | - | - | - |
| T16_B | 18/10/2023 | Trench | Natural Ground | Floor | 25.7 | 0.6 | 25.1 | Trench | Final | Normal (Sample ID used by lab is TS16_B) | - | - | - | - | - | - | - |
| T16_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 25.7 | 0.3 | 25.4 | Trench | Final | Normal (Sample ID used by lab is TS16_W1) | - | - | - | - | - | - | - |
| T16_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 25.7 | 0.3 | 25.4 | Trench | Final | Normal (Sample ID used by lab is TS16_W2) | - | - | - | - | - | - | - |
| T17-B | 26/10/2023 | Trench | Natural Ground | Floor | 23.8 | 0.55 | 23.25 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T17-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 23.8 | 0.15 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T17-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 23.8 | 0.15 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T18-B | 26/10/2023 | Trench | Natural Ground | Floor | 24 | 0.55 | 23.45 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T18-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24 | 0.6 | 23.4 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T18-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.35 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T18-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.35 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T19-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.3 | 0.4 | 23.9 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T19-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.2 | 24.1 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T19-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.3 | 0.25 | 24.05 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T20-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.55 | 23.55 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T20-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T20-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.15 | 23.95 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T21-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.2 | 0.6 | 23.6 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T21-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24.2 | 0.6 | 23.6 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T21-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.2 | 0.25 | 23.95 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T21-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.2 | 0.3 | 23.9 | Trench | Final | Normal | - | - | - | - | - | - | - |

## C.1.1 Chemical Results - Final Validation Samples

| | | | | | | | | | | | | | | | | Pesticides | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Pyrene | Naphthalene | Benzo(a) pyrene | Fluorene | Demeton-S-methyl | Fenamiphos | Pirimphos-ethyl |
| | | | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.05 | 0.05 | 0.05 |
| Remediation Criteria | | | | | | | | | | | - | - | - | - | - | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Ground Surface Elevation at Sample Location (m AHD)** | **Sample Depth (m bgs)** | **Sample Depth (m AHD)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | |
| T22-B | 26/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.38 | 24.02 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T22-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24.4 | 0.38 | 24.02 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T22-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T22-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T22_F_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.5 | 23.9 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T22_WA_231016 | 16/10/2023 | Trench | Natural Ground | Wall | 24.4 | 0.15 | 24.25 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T22_WB_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 24.4 | 0.2 | 24.2 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T23-B | 26/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T23-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T23-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T23_F_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.5 | 23.4 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T23_WA_231016 | 16/10/2023 | Trench | Natural Ground | Wall | 23.9 | 0.2 | 23.7 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T23_WB_231016 | 16/10/2023 | Trench | Natural Ground | Floor | 23.9 | 0.25 | 23.65 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T24-B | 26/10/2023 | Trench | Natural Ground | Floor | 24 | 0.45 | 23.55 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T24-B (Rebatch Cr VI) | 26/10/2023 | Trench (Rebatch) | Natural Ground | Floor | 24 | 0.45 | 23.55 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T24-W1 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.15 | 23.85 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T24-W2 | 26/10/2023 | Trench | Natural Ground | Wall | 24 | 0.15 | 23.85 | Trench | Final | Normal | - | - | - | - | - | - | - |
| T25_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.6 | 0.6 | 24 | Trench | Final | Normal (Sample ID used by lab is TS25_B) | - | - | - | - | - | - | - |
| T25_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.6 | 0.3 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS25_W1) | - | - | - | - | - | - | - |
| T25_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.6 | 0.3 | 24.3 | Trench | Final | Normal (Sample ID used by lab is TS25_W2) | - | - | - | - | - | - | - |
| T26_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.45 | 23.65 | Trench | Final | Normal (Sample ID used by lab is TS26_B) | - | - | - | - | - | - | - |
| T26_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS26_W1) | - | - | - | - | - | - | - |
| T26_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS26_W2) | - | - | - | - | - | - | - |
| T27_B | 18/10/2023 | Trench | Natural Ground | Floor | 24.1 | 0.5 | 23.6 | Trench | Final | Normal (Sample ID used by lab is TS27_B) | - | - | - | - | - | - | - |
| T27_W1 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.19 | 23.91 | Trench | Final | Normal (Sample ID used by lab is TS27_W1) | - | - | - | - | - | - | - |
| T27_W2 | 18/10/2023 | Trench | Natural Ground | Wall | 24.1 | 0.2 | 23.9 | Trench | Final | Normal (Sample ID used by lab is TS27_W2) | - | - | - | - | - | - | - |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

**C.1.2 Asbestos Results - Final Validation Samples**

| Sample ID | Sample Date | Main Grouping | Location | Final/ Redunant | Material Type | Surface Elevation (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Sample Mass (g) | Sample Description | Asbestos Reported Result | NEPM HIL-A Criteria | | Sample ID Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Bonded ACM 0.01 % | Friable Asbestos (FA and AF) 0.001% | |
| HS01_ASH_230912 | 12 Sep 2023 | Headfort Street Boundary | Wall | Final | Ash Fill | 27.7 | 0.7 | 27 | 533 | Brown coarse-grained soil, coal, rocks and debris | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HS01_NW_230912 | 12 Sep 2023 | Headfort Street Boundary | Wall | Final | Natural Ground | 27.7 | 0.75 | 26.95 | 549 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HS01_F_230912 | 12 Sep 2023 | Headfort Street Boundary | Floor | Final | Natural Ground | 27.7 | 0.9 | 26.8 | 547 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HS02_ASH_230912 | 12 Sep 2023 | Headfort Street Boundary | Wall | Final | Ash Fill | 27.7 | 0.7 | 27 | 500 | Brown coarse-grained soil, coal, rocks and debris | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HS02_NW_230912 | 12 Sep 2023 | Headfort Street Boundary | Wall | Final | Natural Ground | 27.7 | 0.85 | 26.85 | 624 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HS02_F_230912 | 12 Sep 2023 | Headfort Street Boundary | Floor | Final | Natural Ground | 27.7 | 1.1 | 26.6 | 636 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HS03_ASH_230912 | 12 Sep 2023 | Headfort Street Boundary | Wall | Final | Ash Fill | 27.7 | 0.8 | 26.9 | 540 | Brown coarse-grained soil, coal, fragments of fire black, rocks and debris | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HS03_NW_230912 | 12 Sep 2023 | Headfort Street Boundary | Wall | Final | Natural Ground | 27.7 | 0.9 | 26.8 | 545 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HS03_F_230912 | 12 Sep 2023 | Headfort Street Boundary | Floor | Final | Natural Ground | 27.7 | 1.1 | 26.6 | 669 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HS04_ASH_230912 | 12 Sep 2023 | Headfort Street Boundary | Wall | Final | Ash Fill | 27.7 | 0.85 | 26.85 | 503 | Brown coarse-grained soil, coal, fragments of fire brick, rocks and debris | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HS04_NW_230912 | 12 Sep 2023 | Headfort Street Boundary | Wall | Final | Natural Ground | 27.7 | 0.9 | 26.8 | 648 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HS04_F_230912 | 12 Sep 2023 | Headfort Street Boundary | Floor | Final | Natural Ground | 27.7 | 1.1 | 26.6 | 664 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HS05_ASH_230912 | 12 Sep 2023 | Headfort Street Boundary | Wall | Final | Ash Fill | 27.7 | 0.9 | 26.8 | 457 | Brown coarse-grained soil, coal, fragments of fire brick, rocks and debris | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HS05_NW_230912 | 12 Sep 2023 | Headfort Street Boundary | Wall | Final | Natural Ground | 27.7 | 0.95 | 26.75 | 752 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HS05_F_230912 | 12 Sep 2023 | Headfort Street Boundary | Floor | Final | Natural Ground | 27.7 | 1.1 | 26.6 | 768 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HS06_ASH_230912 | 12 Sep 2023 | Headfort Street Boundary | Wall | Final | Ash Fill | 27.7 | 1 | 26.7 | 469 | Brown fine-grained clayey soil, coal, fragments of fire brick, rocks and debris | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HS06_NW_230912 | 12 Sep 2023 | Headfort Street Boundary | Wall | Final | Natural Ground | 27.7 | 1.1 | 26.6 | 720 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HS06_F_230912 | 12 Sep 2023 | Headfort Street Boundary | Floor | Final | Natural Ground | 27.7 | 1.2 | 26.5 | 677 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |

**C.1.2 Asbestos Results - Final Validation Samples**

| Sample ID | Sample Date | Main Grouping | Location | Final/ Redunant | Material Type | Surface Elevation (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Sample Mass (g) | Sample Description | Asbestos Reported Result | NEPM HIL-A Criteria | | Sample ID Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Bonded ACM 0.01 % | Friable Asbestos (FA and AF) 0.001% | |
| HS07_ASH_230912 | 12 Sep 2023 | Headfort Street Boundary | Wall | Final | Ash Fill | 27.7 | 0.95 | 26.75 | 546 | Brown coarse-grained soil, coal, fragments of fire brick, rocks and debris | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HS07_NW_230912 | 12 Sep 2023 | Headfort Street Boundary | Wall | Final | Natural Ground | 27.7 | 1.1 | 26.6 | 942 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| QC03_230912 (HS07_NW_230912) | 12 Sep 2023 | Headfort Street Boundary | Wall | Final | Natural Ground | 27.7 | 1.1 | 26.6 | 38 | Brown coarse-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HS07_F_230912 | 12 Sep 2023 | Headfort Street Boundary | Floor | Final | Natural Ground | 27.7 | 1.2 | 26.5 | 724 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HS08_ASH_230912 | 12 Sep 2023 | Headfort Street Boundary | Wall | Final | Ash Fill | 27.7 | 0.9 | 26.8 | 585 | Brown fine-grained clayey soil, coal, rocks and debris | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HS08_NW_230912 | 12 Sep 2023 | Headfort Street Boundary | Wall | Final | Natural Ground | 27.7 | 1 | 26.7 | 658 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HS08_F_230912 | 12 Sep 2023 | Headfort Street Boundary | Floor | Final | Natural Ground | 27.7 | 1.1 | 26.6 | 663 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HS09_ASH_230918 | 18-Sep-23 | Headfort Street Boundary | Wall | Final | Ash Fill | 26.7 | 0.45 | 26.25 | 498 | Brown coarse-grained sandy soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HS09_NW_230918 | 18-Sep-23 | Headfort Street Boundary | Wall | Final | Natural Ground | 26.7 | 0.55 | 26.15 | 612 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HS09_FLOOR_230918 | 18-Sep-23 | Headfort Street Boundary | Floor | Final | Natural Ground | 26.7 | 0.8 | 25.9 | 576 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HS10_TS_230918 | 18-Sep-23 | Headfort Street Boundary | Wall | Final | Topsoil | 27.2 | 0.1 | 27.1 | 711 | Brown fine-grained clayey soil and rocks | FA:<br>Chrysotile asbestos detected in soft synthetic material.<br>Approximate raw weight of FA = 0.0065g<br>Estimated asbestos content in FA = 0.0020g*<br><br>AF:<br>Chrysotile asbestos detected in the form of loose fibres.<br>Approximate raw weight of AF = 0.00040g*<br>Estimated asbestos content in AF = 0.00040g*<br><br>Total estimated asbestos content in FA and AF = 0.0024g*<br>Total estimated asbestos concentration in FA and AF = 0.00033% w/w*<br>No asbestos detected at the reporting limit of 0.001% w/w.*<br><br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | 0.00033% | - |
| HS10_ASH_230918 | 18-Sep-23 | Headfort Street Boundary | Wall | Final | Ash Fill | 27.2 | 0.4 | 26.8 | 633 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HS10_NW_230918 | 18-Sep-23 | Headfort Street Boundary | Wall | Final | Natural Ground | 27.2 | 0.7 | 26.5 | 597 | Brown fine-grained clayey soil, coal and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HS10_FLOOR_230918 | 18-Sep-23 | Headfort Street Boundary | Floor | Final | Natural Ground | 27.2 | 1 | 26.2 | 424 | Brown fine-grained clayey soil, coal and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HS10A_TS_230918 | 18-Sep-23 | Headfort Street Boundary | Wall | Final | Topsoil | 27.3 | 0.1 | 27.2 | 548 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |

**C.1.2 Asbestos Results - Final Validation Samples**

| Sample ID | Sample Date | Main Grouping | Location | Final/ Redunant | Material Type | Surface Elevation (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Sample Mass (g) | Sample Description | Asbestos Reported Result | NEPM HIL-A Criteria | | Sample ID Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Bonded ACM 0.01 % | Friable Asbestos (FA and AF) 0.001% | |
| HS10A_ASH_230918 | 18-Sep-23 | Headfort Street Boundary | Wall | Final | Ash Fill | 27.3 | 0.4 | 26.9 | 739 | Brown fine-grained clayey soil, coal and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HS10A_NW_230918 | 18-Sep-23 | Headfort Street Boundary | Wall | Final | Natural Ground | 27.3 | 0.7 | 26.6 | 488 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HS10A_FLOOR_230918 | 18-Sep-23 | Headfort Street Boundary | Floor | Final | Natural Ground | 27.3 | 1 | 26.3 | 558 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HS10B_TS_230918 | 18-Sep-23 | Headfort Street Boundary | Wall | Final | Topsoil | 27.2 | 0.1 | 27.1 | 699 | Brown coarse-grained sandy soil, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HS10B_ASH_230918 | 18-Sep-23 | Headfort Street Boundary | Wall | Final | Ash Fill | 27.2 | 0.3 | 26.9 | 664 | Brown fine-grained clayey soil, coal, rocks and debris | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HS10B_NW_230918 | 18-Sep-23 | Headfort Street Boundary | Wall | Final | Natural Ground | 27.2 | 0.7 | 26.5 | 627 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HS10B_FLOOR_230918 | 18-Sep-23 | Headfort Street Boundary | Floor | Final | Natural Ground | 27.2 | 1 | 26.2 | 559 | Brown fine-grained clayey soil, coal and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HS11_ASH_230918 | 18-Sep-23 | Headfort Street Boundary | Wall | Final | Ash Fill | 27.8 | 0.9 | 26.9 | 599 | Brown coarse-grained soil, coal, cement, rocks and debris | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HS11_NW_230918 | 18-Sep-23 | Headfort Street Boundary | Wall | Final | Natural Ground | 27.8 | 0.95 | 26.85 | 527 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HS11_FLOOR_230918 | 18-Sep-23 | Headfort Street Boundary | Floor | Final | Natural Ground | 27.8 | 1.1 | 26.7 | 502 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HS12_ASH_230918 | 18-Sep-23 | Headfort Street Boundary | Wall | Final | Ash Fill | 27.5 | 0.95 | 26.55 | 557 | Brown coarse-grained soil, coal, rocks and debris | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HS12_NW_230918 | 18-Sep-23 | Headfort Street Boundary | Wall | Final | Natural Ground | 27.5 | 1 | 26.5 | 649 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HS12_FLOOR_230918 | 18-Sep-23 | Headfort Street Boundary | Floor | Final | Natural Ground | 27.5 | 1.1 | 26.4 | 542 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSA01_TS_230920 | 20-Sep-23 | Eastern Boundary | Wall | Final | Topsoil | 27.1 | 0.05 | 27.05 | 575 | Brown coarse grained sandy clayey soil, brick, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSA01_FILL_230920 | 20-Sep-23 | Eastern Boundary | Wall | Final | Fill | 27.1 | 0.2 | 26.9 | 557 | Brown fine-grained clayey soil, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSA01_NW_230920 | 20-Sep-23 | Eastern Boundary | Wall | Final | Natural Ground | 27.1 | 0.25 | 26.85 | 452 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sampled ID used by lab is HAS01_NW_230920 |
| HSA02_TS_230920 | 20-Sep-23 | Eastern Boundary | Wall | Final | Topsoil | 26.8 | 0.05 | 26.75 | 701 | Brown coarse grained sandy clayey soil, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSA02_FILL_230920 | 20-Sep-23 | Eastern Boundary | Wall | Final | Fill | 26.8 | 0.2 | 26.6 | 830 | Brown coarse grained sandy clayey soil, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |

**C.1.2 Asbestos Results - Final Validation Samples**

| Sample ID | Sample Date | Main Grouping | Location | Final/ Redunant | Material Type | Surface Elevation (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Sample Mass (g) | Sample Description | Asbestos Reported Result | NEPM HIL-A Criteria | | Sample ID Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Bonded ACM 0.01 % | Friable Asbestos (FA and AF) 0.001% | |
| HSA02_NW_230920 | 20-Sep-23 | Eastern Boundary | Wall | Final | Natural Ground | 26.8 | 0.25 | 26.55 | 520 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is HAS02_NW_230920 |
| HSA03_TS_230920 | 20-Sep-23 | Eastern Boundary | Wall | Final | Topsoil | 26.2 | 0.05 | 26.15 | 685 | Brown coarse grained sandy clayey soil, cement, rocks and debris | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSA03_FILL_230920 | 20-Sep-23 | Eastern Boundary | Wall | Final | Fill | 26.2 | 0.2 | 26 | 610 | Brown fine-grained clayey soil, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSA03_NW_230920 | 20-Sep-23 | Eastern Boundary | Wall | Final | Natural Ground | 26.2 | 0.25 | 25.95 | 545 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is HAS03_NW_230920 |
| HSA04_TS_230920 | 20-Sep-23 | Eastern Boundary | Wall | Final | Topsoil | 26 | 0.05 | 25.95 | 783 | Brown coarse-grained soil, brick, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSA04_FILL_230920 | 20-Sep-23 | Eastern Boundary | Wall | Final | Fill | 26 | 0.2 | 25.8 | 885 | Brown coarse-grained soil, brick, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSA04_NW_230920 | 20-Sep-23 | Eastern Boundary | Wall | Final | Natural Ground | 26 | 0.25 | 25.75 | 719 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is HAS04_NW_230920 |
| HSB01_TS_231016 | 16-Oct-23 | Newdegate St Boundary | Wall | Final | Topsoil | 26.7 | 0.1 | 26.6 | 441 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB01_ASH_231016 | 16-Oct-23 | Newdegate St Boundary | Wall | Final | Ash Fill | 26.7 | 0.35 | 26.35 | 509 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB01_NW_231016 | 16-Oct-23 | Newdegate St Boundary | Wall | Final | Natural Ground | 26.7 | 0.5 | 26.2 | 573 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB01_F_231016 | 16-Oct-23 | Newdegate St Boundary | Floor | Final | Natural Ground | 26.7 | 0.7 | 26 | 541 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB02_TS_231016 | 16-Oct-23 | Newdegate St Boundary | Wall | Final | Topsoil | 26.6 | 0.1 | 26.5 | 460 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB02_ASH_231016 | 16-Oct-23 | Newdegate St Boundary | Wall | Final | Ash Fill | 26.6 | 0.3 | 26.3 | 535 | Brown fine-grained clayey soil, brick, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB02_NW_231016 | 16-Oct-23 | Newdegate St Boundary | Wall | Final | Natural Ground | 26.6 | 0.4 | 26.2 | 587 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB02_F_231016 | 16-Oct-23 | Newdegate St Boundary | Floor | Final | Natural Ground | 26.6 | 0.6 | 26 | 487 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB03_TS_231016 | 16-Oct-23 | Newdegate St Boundary | Wall | Final | Topsoil | 26 | 0.1 | 25.9 | 482 | Brown fine-grained clayey soil, rocks and debris | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB03_ASH_231016 | 16-Oct-23 | Newdegate St Boundary | Wall | Final | Ash Fill | 26 | 0.5 | 25.5 | 501 | Brown coarse-grained soil, coal, glass, rocks and debris | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB03_NW_231016 | 16-Oct-23 | Newdegate St Boundary | Wall | Final | Natural Ground | 26 | 0.6 | 25.4 | 515 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |

**C.1.2 Asbestos Results - Final Validation Samples**

| Sample ID | Sample Date | Main Grouping | Location | Final/ Redunant | Material Type | Surface Elevation (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Sample Mass (g) | Sample Description | Asbestos Reported Result | NEPM HIL-A Criteria | | Sample ID Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Bonded ACM 0.01 % | Friable Asbestos (FA and AF) 0.001% | |
| HSB03_F_231016 | 16-Oct-23 | Newdegate St Boundary | Floor | Final | Natural Ground | 26 | 0.65 | 25.35 | 674 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB04_TS_231016 | 16-Oct-23 | Newdegate St Boundary | Wall | Final | Topsoil | 25.6 | 0.1 | 25.5 | 522 | Brown fine-grained clayey soil, coal and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB04_ASH_231016 | 16-Oct-23 | Newdegate St Boundary | Wall | Final | Ash Fill | 25.6 | 0.5 | 25.1 | 452 | Brown fine-grained clayey soil, coal, rocks and debris | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB04_NW_231016 | 16-Oct-23 | Newdegate St Boundary | Wall | Final | Natural Ground | 25.6 | 0.6 | 25 | 522 | Brown fine-grained clayey soil, coal and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB04_F_231016 | 16-Oct-23 | Newdegate St Boundary | Floor | Final | Natural Ground | 25.6 | 0.7 | 24.9 | 775 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB05_TS_231016 | 16-Oct-23 | Newdegate St Boundary | Wall | Final | Topsoil | 25.1 | 0.1 | 25 | 422 | Brown coarse grained sandy clayey soil, rocks and debris | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB05_ASH_231016 | 16-Oct-23 | Newdegate St Boundary | Wall | Final | Ash Fill | 25.1 | 0.3 | 24.8 | 391 | Brown coarse-grained soil, coal, rocks and debris | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB05_F_231016 | 16-Oct-23 | Newdegate St Boundary | Floor | Final | Natural Ground | 25.1 | 0.45 | 24.65 | 627 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB06_TS_231016 | 16-Oct-23 | Newdegate St Boundary | Wall | Final | Topsoil | 24.5 | 0.1 | 24.4 | 553 | Brown fine-grained clayey soil, bitumen and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB06_ASH_231016 | 16-Oct-23 | Newdegate St Boundary | Wall | Final | Ash Fill | 24.5 | 0.55 | 23.95 | 367 | Dark grey coarse-grained soil, coal, rocks and debris | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB06_NW_231016 | 16-Oct-23 | Newdegate St Boundary | Wall | Final | Natural Ground | 24.5 | 0.7 | 23.8 | 635 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB06_F_231016 | 16-Oct-23 | Newdegate St Boundary | Floor | Final | Natural Ground | 24.5 | 0.9 | 23.6 | 447 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB07 | 26-Oct-23 | Newdegate St Boundary | Wall | Final | Natural Ground | 24.2 | 0.1 | 24.1 | 399 | Deep grey fine-grained clayey soil, debris and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB08 | 18-Oct-23 | Newdegate St Boundary | Wall | Final | Natural Ground | 23.5 | 0.2 | 23.3 | 453 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB18 (HSB_018) | 14-Dec-23 | Northern Boundary | Floor | Final | Natural Ground | 23.4 | 0.15 | 23.25 | 706.59 | Dark brown silty clay LP - Dry ash, trace | No asbestos detected (NAD) at a reporting limit of 0.1g/kg. No Trace Asbestos. NAD at the reporting limit of 0.001% w/w | Non-detect | Non-detect | - |
| HSB19 (HSB_019) | 14-Dec-23 | Northern Boundary | Floor | Final | Natural Ground | 23.5 | 0.15 | 23.35 | 583.78 | rootlets, weathered rock | No asbestos detected (NAD) at a reporting limit of 0.1g/kg. No Trace Asbestos. NAD at the reporting limit of 0.001% w/w | Non-detect | Non-detect | - |
| HSB20 (HSB_020) | 14-Dec-23 | Northern Boundary | Floor | Final | Natural Ground | 23.6 | 0.15 | 23.45 | 690.58 | Dark brown silty clay LP - Dry ash, trace | No asbestos detected (NAD) at a reporting limit of 0.1g/kg. No Trace Asbestos. NAD at the reporting limit of 0.001% w/w | Non-detect | Non-detect | - |
| HSB21 (HSB_021) | 14-Dec-23 | Northern Boundary | Floor | Final | Natural Ground | 23.8 | 0.15 | 23.65 | 588.26 | rootlets, weathered rock | No asbestos detected (NAD) at a reporting limit of 0.1g/kg. No Trace Asbestos. NAD at the reporting limit of 0.001% w/w | Non-detect | Non-detect | - |
| HSB22 (HSB_022) | 14-Dec-23 | Northern Boundary | Floor | Final | Natural Ground | 23.8 | 0.15 | 23.65 | 631.55 | Dark brown clay, dark red brown dirt MP- | No asbestos detected (NAD) at a reporting limit of 0.1g/kg. No Trace Asbestos. NAD at the reporting limit of 0.001% w/w | Non-detect | Non-detect | - |
| HSB23 (HSB_023) | 14-Dec-23 | Northern Boundary | Floor | Final | Natural Ground | 23.9 | 0.15 | 23.75 | 531.97 | HP - Trace weathered rootlets, ash | No asbestos detected (NAD) at a reporting limit of 0.1g/kg. No Trace Asbestos. NAD at the reporting limit of 0.001% w/w | Non-detect | Non-detect | - |

**C.1.2 Asbestos Results - Final Validation Samples**

| Sample ID | Sample Date | Main Grouping | Location | Final/ Redunant | Material Type | Surface Elevation (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Sample Mass (g) | Sample Description | Asbestos Reported Result | NEPM HIL-A Criteria | | Sample ID Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Bonded ACM 0.01 % | Friable Asbestos (FA and AF) 0.001% | |
| HSB24 (HSB_024) | 14-Dec-23 | Northern Boundary | Floor | Final | Natural Ground | 23.9 | 0.15 | 23.75 | 457.62 | Dark brown clay, dark red brown dirt MP- | No asbestos detected (NAD) at a reporting limit of 0.1g/kg. No Trace Asbestos. NAD at the reporting limit of 0.001% w/w | Non-detect | Non-detect | - |
| HSB25 (HSB_025) | 14-Dec-23 | Northern Boundary | Floor | Final | Natural Ground | 23.9 | 0.15 | 23.75 | 839.86 | HP - Trace weathered rootlets, ash | No asbestos detected (NAD) at a reporting limit of 0.1g/kg. No Trace Asbestos. NAD at the reporting limit of 0.001% w/w | Non-detect | Non-detect | - |
| HSB26 (HSB_026) | 14-Dec-23 | Northern Boundary | Floor | Final | Natural Ground | 23.9 | 0.15 | 23.75 | 493.5 | MP-HP clay dark brown - Dry trace | No asbestos detected (NAD) at a reporting limit of 0.1g/kg. No Trace Asbestos. NAD at the reporting limit of 0.001% w/w | Non-detect | Non-detect | - |
| HSB27 (HSB_027) | 14-Dec-23 | Northern Boundary | Floor | Final | Natural Ground | 24.1 | 0.15 | 23.95 | 519.2 | MP-HP clay dark brown - Dry trace weathered rock, rootlets | No asbestos detected (NAD) at a reporting limit of 0.1g/kg. No Trace Asbestos. NAD at the reporting limit of 0.001% w/w | Non-detect | Non-detect | - |
| DW-B1 | 18-Oct-23 | Driveway | Floor | Final | Natural Ground | 24.7 | 0.3 | 24.4 | 490 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| DW-B2 | 18-Oct-23 | Driveway | Floor | Final | Natural Ground | 24.7 | 0.3 | 24.4 | 676 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| DW-B3 | 18-Oct-23 | Driveway | Floor | Final | Natural Ground | 24.5 | 0.3 | 24.2 | 615 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| DW-B4 | 18-Oct-23 | Driveway | Floor | Final | Natural Ground | 24.5 | 0.3 | 24.2 | 641 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| A1 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 23.3 | 0.1 | 23.2 | 976 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| A2 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 23.4 | 0.1 | 23.3 | 900 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| A3 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 23.3 | 0.1 | 23.2 | 1127 | Brown fine-grained clayey soil, glass and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| A4 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 23.5 | 0.1 | 23.4 | 1081 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| A5 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 23.3 | 0.1 | 23.2 | 932 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| A6 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 23.6 | 0.1 | 23.5 | 915 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| A7 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 23.8 | 0.1 | 23.7 | 808 | Brown fine-grained clayey soil, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| A8 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 23.9 | 0.1 | 23.8 | 983 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| A9 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 23.8 | 0.1 | 23.7 | 1112 | Brown coarse-grained sandy soil, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| A10 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 24.6 | 0.1 | 24.5 | 913 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |
| B1 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 23.7 | 0.1 | 23.6 | 1343 | Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected. | Non-detect | Non-detect | - |

**C.1.2 Asbestos Results - Final Validation Samples**

| Sample ID | Sample Date | Main Grouping | Location | Final/ Redunant | Material Type | Surface Elevation (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Sample Mass (g) | Sample Description | Asbestos Reported Result | NEPM HIL-A Criteria | | Sample ID Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Bonded ACM 0.01 % | Friable Asbestos (FA and AF) 0.001% | |
| B2 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 23.7 | 0.1 | 23.6 | 895 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| B3 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 23.7 | 0.1 | 23.6 | 1189 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| B4 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 23.7 | 0.1 | 23.6 | 893 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| B5 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 23.9 | 0.1 | 23.8 | 962 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| B6 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 24 | 0.1 | 23.9 | 934 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| B7 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 24 | 0.1 | 23.9 | 1039 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| B8 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 24.2 | 0.1 | 24.1 | 973 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| B9 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 23.7 | 0.1 | 23.6 | 847 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| B10 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 24.8 | 0.1 | 24.7 | 922 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| C1 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 24.1 | 0.1 | 24 | 1396 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| C2 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 24.2 | 0.1 | 24.1 | 920 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| C3 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 24.1 | 0.1 | 24 | 695 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| C4 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 24 | 0.1 | 23.9 | 817 | Brown fine-grained clayey soil, coal and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| C5 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 24.2 | 0.1 | 24.1 | 1155 | Brown fine-grained clayey soil, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| C6 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 24.2 | 0.1 | 24.1 | 864 | Brown fine-grained clayey soil, brick and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| C7 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 24 | 0.1 | 23.9 | 927 | Brown fine-grained clayey soil, brick, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| C8 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 23.9 | 0.1 | 23.8 | 895 | Brown fine-grained clayey soil, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| C9 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 23.9 | 0.1 | 23.8 | 943 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |

**C.1.2 Asbestos Results - Final Validation Samples**

| Sample ID | Sample Date | Main Grouping | Location | Final/ Redunant | Material Type | Surface Elevation (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Sample Mass (g) | Sample Description | Asbestos Reported Result | NEPM HIL-A Criteria | | Sample ID Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Bonded ACM 0.01 % | Friable Asbestos (FA and AF) 0.001% | |
| C10 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 24.9 | 0.1 | 24.8 | 947 | Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| D1 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 24.7 | 0.1 | 24.6 | 468 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| D2 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 24.3 | 0.1 | 24.2 | 960 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| D3 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 24.2 | 0.1 | 24.1 | 1071 | Brown fine-grained clayey soil, glass and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| D4 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 24.4 | 0.1 | 24.3 | 968 | Brown fine-grained clayey soil, brick and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| D5 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 24.5 | 0.1 | 24.4 | 1052 | Brown fine-grained clayey soil, cement, brick and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| D6 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 24 | 0.1 | 23.9 | 1133 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| D7 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 24.7 | 0.1 | 24.6 | 1148 | Brown fine-grained clayey soil, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| D8 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 24.3 | 0.1 | 24.2 | 784 | Brown fine-grained clayey soil, cement, brick and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| D9 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 24.3 | 0.1 | 24.2 | 1031 | Brown fine-grained clayey soil, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| D10 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 25.2 | 0.1 | 25.1 | 758 | Brown fine-grained clayey soil, cement, debris and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| E1 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 25.1 | 0.1 | 25 | 820 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| E2 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 24.8 | 0.1 | 24.7 | 574 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| E3 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 24.6 | 0.1 | 24.5 | 566 | Brown fine-grained clayey soil, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| E4 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 24.8 | 0.1 | 24.7 | 730 | Brown fine-grained clayey soil, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| E5 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 24.9 | 0.1 | 24.8 | 827 | Brown fine-grained clayey soil, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| E6 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 25 | 0.1 | 24.9 | 628 | Brown fine-grained clayey soil, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| E7 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 25 | 0.1 | 24.9 | 865 | Brown fine-grained clayey soil, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |

**C.1.2 Asbestos Results - Final Validation Samples**

| Sample ID | Sample Date | Main Grouping | Location | Final/ Redunant | Material Type | Surface Elevation (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Sample Mass (g) | Sample Description | Asbestos Reported Result | NEPM HIL-A Criteria | | Sample ID Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Bonded ACM 0.01 % | Friable Asbestos (FA and AF) 0.001% | |
| E8 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 25 | 0.1 | 24.9 | 757 | Brown fine-grained clayey soil, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| E9 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 24.6 | 0.1 | 24.5 | 923 | Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| E10 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 25.8 | 0.1 | 25.7 | 638 | Brown fine-grained soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| F1 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 25.5 | 0.1 | 25.4 | 726 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| F2 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 25.2 | 0.1 | 25.1 | 883 | Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| F3 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 25.2 | 0.1 | 25.1 | 638 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| F4 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 25.3 | 0.1 | 25.2 | 646 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| F5 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 25.3 | 0.1 | 25.2 | 702 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| F6 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 25.4 | 0.1 | 25.3 | 741 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| F7 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 25.3 | 0.1 | 25.2 | 771 | Brown fine-grained clayey soil, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| F8 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 25.3 | 0.1 | 25.2 | 717 | Brown fine-grained clayey soil, cement, debris and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| F9 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 25.4 | 0.1 | 25.3 | 881 | Brown coarse-grained soil, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| F10 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 25.7 | 0.1 | 25.6 | 557 | Brown fine-grained clayey soil, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| G1 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 25.9 | 0.1 | 25.8 | 678 | Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| G2 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 25.6 | 0.1 | 25.5 | 491 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| G3 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 25.8 | 0.1 | 25.7 | 1038 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| G4 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 25.9 | 0.1 | 25.8 | 975 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| G5 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 25.7 | 0.1 | 25.6 | 959 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |

**C.1.2 Asbestos Results - Final Validation Samples**

| Sample ID | Sample Date | Main Grouping | Location | Final/ Redunant | Material Type | Surface Elevation (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Sample Mass (g) | Sample Description | Asbestos Reported Result | NEPM HIL-A Criteria | | Sample ID Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Bonded ACM 0.01 % | Friable Asbestos (FA and AF) 0.001% | |
| G6 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 25.8 | 0.1 | 25.7 | 1038 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| G7 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 25.8 | 0.1 | 25.7 | 873 | Brown fine-grained clayey soil, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| G8 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 25.9 | 0.1 | 25.8 | 792 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| G9 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 25.7 | 0.1 | 25.6 | 710 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| G10 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 26 | 0.1 | 25.9 | 582 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| H1 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 26.3 | 0.1 | 26.2 | 634 | Brown fine-grained clayey soil, coal and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| H2 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 26 | 0.1 | 25.9 | 641 | Brown fine-grained clayey soil, coal, cement, debris and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| H3 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 26.1 | 0.1 | 26 | 677 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| H4 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 26 | 0.1 | 25.9 | 691 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| H5 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 26 | 0.1 | 25.9 | 737 | Brown fine-grained clayey soil, coal and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| H6 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 25.9 | 0.1 | 25.8 | 625 | Brown fine-grained clayey soil, coal and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| H7 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 26 | 0.1 | 25.9 | 689 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| H8 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 26.2 | 0.1 | 26.1 | 730 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| H9 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 26.2 | 0.1 | 26.1 | 597 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| H10 | 26-Oct-23 | Final Floor | Floor | Final | Natural Ground | 26.8 | 0.1 | 26.7 | 622 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| TR01_TRENCH WALL_23 | 21-Sep-23 | Trench | Wall | Final | Natural Ground | 25.2 | 0.55 | 24.65 | 613 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| TR02_TRENCH WALL_23 | 21-Sep-23 | Trench | Wall | Final | Natural Ground | 25.2 | 0.35 | 24.85 | 465 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| TR03_TRENCH FLOOR_2 | 21-Sep-23 | Trench | Floor | Final | Natural Ground | 25.2 | 0.6 | 24.6 | 687 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |

**C.1.2 Asbestos Results - Final Validation Samples**

| Sample ID | Sample Date | Main Grouping | Location | Final/ Redunant | Material Type | Surface Elevation (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Sample Mass (g) | Sample Description | Asbestos Reported Result | NEPM HIL-A Criteria | | Sample ID Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Bonded ACM 0.01 % | Friable Asbestos (FA and AF) 0.001% | |
| TR04_TRENCH WALL_23 | 21-Sep-23 | Trench | Wall | Final | Natural Ground | 25.2 | 0.25 | 24.95 | 612 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| TR05_TRENCH WALL_23 | 21-Sep-23 | Trench | Wall | Final | Natural Ground | 25.2 | 0.25 | 24.95 | 546 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| TR06_TRENCH FLOOR_2 | 21-Sep-23 | Trench | Floor | Final | Natural Ground | 25.2 | 0.5 | 24.7 | 440 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T01_B | 18-Oct-23 | Trench | Floor | Final | Natural Ground | 24.3 | 0.55 | 23.75 | 466 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS01_B |
| T01_W1 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 24.3 | 0.225 | 24.075 | 509 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS01_W1 |
| T01_W2 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 24.3 | 0.22 | 24.08 | 442 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS01_W2 |
| T02_B | 18-Oct-23 | Trench | Floor | Final | Natural Ground | 24 | 0.5 | 23.5 | 392 | Brown fine-grained clayey soil and rocks | AF:<br>Chrysotile asbestos detected in the form of loose fibre bundles.<br>Approximate raw weight of AF = 0.013g*<br>Estimated asbestos content in AF = 0.011g*<br>Total estimated asbestos concentration in AF = 0.0029% w/w*<br><br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | 0.0029% | Sample ID used by lab is TS02_B |
| T02_W1 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 24 | 0.25 | 23.75 | 400 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS02_W1 |
| T02_W2 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 24 | 0.3 | 23.7 | 373 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS02_W2 |
| T03_B | 18-Oct-23 | Trench | Floor | Final | Natural Ground | 23.9 | 0.5 | 23.4 | 549 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS03_B |
| T03_W1 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 23.9 | 0.35 | 23.55 | 514 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS03_W1 |
| T03_W2 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 23.9 | 0.35 | 23.55 | 534 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS03_W2 |
| T04_B | 18-Oct-23 | Trench | Floor | Final | Natural Ground | 23.6 | 0.55 | 23.05 | 507 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS04_B |
| T04_W1 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 23.6 | 0.32 | 23.28 | 440 | Brown fine-grained clayey soil and rocks | AF:<br>Chrysotile asbestos detected in the form of loose fibre bundles.<br>Approximate raw weight of AF = 0.0056g*<br>Estimated asbestos content in AF = 0.0050g*<br>Total estimated asbestos concentration in AF = 0.0011% w/w*<br><br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | 0.0011% | Sample ID used by lab is TS04_W1 |
| T04_W2 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 23.6 | 0.35 | 23.25 | 507 | Brown fine-grained clayey soil, brick, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS04_W2 |

**C.1.2 Asbestos Results - Final Validation Samples**

| Sample ID | Sample Date | Main Grouping | Location | Final/ Redunant | Material Type | Surface Elevation (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Sample Mass (g) | Sample Description | Asbestos Reported Result | NEPM HIL-A Criteria | | Sample ID Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Bonded ACM 0.01 % | Friable Asbestos (FA and AF) 0.001% | |
| T05_B | 18-Oct-23 | Trench | Floor | Final | Natural Ground | 23.4 | 0.55 | 22.85 | 581 | Brown fine-grained clayey soil and rocks | FA:<br>Chrysotile asbestos detected in fibre plaster material.<br>Approximate raw weight of FA = 0.0038g<br>Estimated asbestos content in FA = 0.0015g*<br>Total estimated asbestos concentration in FA = 0.00026% w/w*<br>No asbestos detected at the reporting limit of 0.001% w/w.*<br><br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | 0.00026% | Sample ID used by lab is TS05_B |
| T05_W1 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 23.4 | 0.4 | 23 | 529 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS05_W1 |
| T05_W2 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 23.4 | 0.3 | 23.1 | 542 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS05_W2 |
| T06_B | 18-Oct-23 | Trench | Floor | Final | Natural Ground | 23.4 | 0.5 | 22.9 | 565 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS06_B |
| T06_W1 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 23.4 | 0.25 | 23.15 | 557 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS06_W1 |
| T06_W2 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 23.4 | 0.25 | 23.15 | 503 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS06_W2 |
| T07_B | 18-Oct-23 | Trench | Floor | Final | Natural Ground | 23.4 | 0.5 | 22.9 | 567 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS07_B |
| T07_W1 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 23.4 | 0.25 | 23.15 | 500 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS07_W1 |
| T07_W2 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 23.4 | 0.25 | 23.15 | 501 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS07_W2 |
| T08_B | 18-Oct-23 | Trench | Floor | Final | Natural Ground | 23.4 | 0.55 | 22.85 | 606 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS08_B |
| T08_W1 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 23.4 | 0.3 | 23.1 | 461 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS08_W1 |
| T08_W2 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 23.4 | 0.21 | 23.19 | 467 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS08_W2 |
| T09_B | 18-Oct-23 | Trench | Floor | Final | Natural Ground | 23.4 | 0.6 | 22.8 | 408 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS09_B |
| T09_W1 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 23.4 | 0.3 | 23.1 | 502 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS09_W1 |
| T09_W2 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 23.4 | 0.32 | 23.08 | 588 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS09_W2 |
| T10_B | 18-Oct-23 | Trench | Floor | Final | Natural Ground | 23.5 | 0.6 | 22.9 | 515 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS10_B |

**C.1.2 Asbestos Results - Final Validation Samples**

| Sample ID | Sample Date | Main Grouping | Location | Final/ Redunant | Material Type | Surface Elevation (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Sample Mass (g) | Sample Description | Asbestos Reported Result | NEPM HIL-A Criteria | | Sample ID Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Bonded ACM 0.01 % | Friable Asbestos (FA and AF) 0.001% | |
| T10_W1 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 23.5 | 0.3 | 23.2 | 580 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS10_W1 |
| T10_W2 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 23.5 | 0.3 | 23.2 | 503 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS10_W2 |
| T11_B | 18-Oct-23 | Trench | Floor | Final | Natural Ground | 23.7 | 0.6 | 23.1 | 601 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS11_B |
| T11_W1 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 23.7 | 0.3 | 23.4 | 505 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS11_W1 |
| T11_W2 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 23.7 | 0.3 | 23.4 | 597 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS11_W2 |
| T12_B | 18-Oct-23 | Trench | Floor | Final | Natural Ground | 23.9 | 0.6 | 23.3 | 567 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS12_B |
| T12_W1 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 23.9 | 0.3 | 23.6 | 413 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS12_W1 |
| T12_W2 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 23.9 | 0.3 | 23.6 | 589 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS12_W2 |
| T13_B | 18-Oct-23 | Trench | Floor | Final | Natural Ground | 24.3 | 0.6 | 23.7 | 436 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS13_B |
| T13_W1 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 24.3 | 0.3 | 24 | 533 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS13_W1 |
| T13_W2 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 24.3 | 0.3 | 24 | 425 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS13_W2 |
| T14_B | 18-Oct-23 | Trench | Floor | Final | Natural Ground | 24.9 | 0.6 | 24.3 | 587 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS14_B |
| T14_W1 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 24.9 | 0.3 | 24.6 | 441 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS14_W1 |
| T14_W2 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 24.9 | 0.3 | 24.6 | 521 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS14_W2 |
| T15_B | 18-Oct-23 | Trench | Floor | Final | Natural Ground | 25 | 0.6 | 24.4 | 319 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS15_B |
| T15_W1 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 25 | 0.3 | 24.7 | 545 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS15_W1 |
| T15_W2 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 25 | 0.3 | 24.7 | 442 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS15_W2 |
| T16_B | 18-Oct-23 | Trench | Floor | Final | Natural Ground | 25.7 | 0.6 | 25.1 | 548 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS16_B |

**C.1.2 Asbestos Results - Final Validation Samples**

| Sample ID | Sample Date | Main Grouping | Location | Final/ Redunant | Material Type | Surface Elevation (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Sample Mass (g) | Sample Description | Asbestos Reported Result | NEPM HIL-A Criteria | | Sample ID Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Bonded ACM 0.01 % | Friable Asbestos (FA and AF) 0.001% | |
| T16_W1 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 25.7 | 0.3 | 25.4 | 502 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS16_W1 |
| T16_W2 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 25.7 | 0.3 | 25.4 | 506 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS16_W2 |
| T17-B | 26-Oct-23 | Trench | Floor | Final | Natural Ground | 23.8 | 0.55 | 23.25 | 650 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T17-W1 | 26-Oct-23 | Trench | Wall | Final | Natural Ground | 23.8 | 0.15 | 23.65 | 832 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T17-W2 | 26-Oct-23 | Trench | Wall | Final | Natural Ground | 23.8 | 0.15 | 23.65 | 596 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T18-B | 26-Oct-23 | Trench | Floor | Final | Natural Ground | 24 | 0.55 | 23.45 | 564 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T18-W1 | 26-Oct-23 | Trench | Wall | Final | Natural Ground | 24 | 0.35 | 23.65 | 593 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T18-W2 | 26-Oct-23 | Trench | Wall | Final | Natural Ground | 24 | 0.35 | 23.65 | 489 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T19-B | 26-Oct-23 | Trench | Floor | Final | Natural Ground | 24.3 | 0.4 | 23.9 | 601 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T19-W1 | 26-Oct-23 | Trench | Wall | Final | Natural Ground | 24.3 | 0.2 | 24.1 | 693 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T19-W2 | 26-Oct-23 | Trench | Wall | Final | Natural Ground | 24.3 | 0.25 | 24.05 | 507 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T20-B | 26-Oct-23 | Trench | Floor | Final | Natural Ground | 24.1 | 0.55 | 23.55 | 752 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T20-W1 | 26-Oct-23 | Trench | Wall | Final | Natural Ground | 24.1 | 0.2 | 23.9 | 509 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T20-W2 | 26-Oct-23 | Trench | Wall | Final | Natural Ground | 24.1 | 0.15 | 23.95 | 837 | Brown fine-grained clayey soil, cement, plaster cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T21-B | 26-Oct-23 | Trench | Floor | Final | Natural Ground | 24.2 | 0.6 | 23.6 | 597 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T21-W1 | 26-Oct-23 | Trench | Wall | Final | Natural Ground | 24.2 | 0.25 | 23.95 | 512 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T21-W2 | 26-Oct-23 | Trench | Wall | Final | Natural Ground | 24.2 | 0.3 | 23.9 | 432 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T22_WA_231016 | 16-Oct-23 | Trench | Wall | Final | Natural Ground | 24.4 | 0.15 | 24.25 | 471 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |

**C.1.2 Asbestos Results - Final Validation Samples**

| Sample ID | Sample Date | Main Grouping | Location | Final/ Redunant | Material Type | Surface Elevation (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Sample Mass (g) | Sample Description | Asbestos Reported Result | NEPM HIL-A Criteria | | Sample ID Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Bonded ACM 0.01 % | Friable Asbestos (FA and AF) 0.001% | |
| T22_WB_231016 | 16-Oct-23 | Trench | Floor | Final | Natural Ground | 24.4 | 0.2 | 24.2 | 609 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T22_F_231016 | 16-Oct-23 | Trench | Floor | Final | Natural Ground | 24.4 | 0.5 | 23.9 | 502 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T22-B | 26-Oct-23 | Trench | Floor | Final | Natural Ground | 24.4 | 0.38 | 24.02 | 489 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T22-W1 | 26-Oct-23 | Trench | Wall | Final | Natural Ground | 24.4 | 0.2 | 24.2 | 471 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T22-W2 | 26-Oct-23 | Trench | Wall | Final | Natural Ground | 24.4 | 0.2 | 24.2 | 510 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T23_WA_231016 | 16-Oct-23 | Trench | Wall | Final | Natural Ground | 23.9 | 0.2 | 23.7 | 613 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T23_WB_231016 | 16-Oct-23 | Trench | Floor | Final | Natural Ground | 23.9 | 0.25 | 23.65 | 378 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T23_F_231016 | 16-Oct-23 | Trench | Floor | Final | Natural Ground | 23.9 | 0.5 | 23.4 | 432 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T23-B | 26-Oct-23 | Trench | Floor | Final | Natural Ground | 23.9 | 0.5 | 23.4 | 500 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T23-W1 | 26-Oct-23 | Trench | Wall | Final | Natural Ground | 23.9 | 0.25 | 23.65 | 454 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T23-W2 | 26-Oct-23 | Trench | Wall | Final | Natural Ground | 23.9 | 0.25 | 23.65 | 581 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T24-B | 26-Oct-23 | Trench | Floor | Final | Natural Ground | 24 | 0.45 | 23.55 | 544 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T24-W1 | 26-Oct-23 | Trench | Wall | Final | Natural Ground | 24 | 0.15 | 23.85 | 467 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T24-W2 | 26-Oct-23 | Trench | Wall | Final | Natural Ground | 24 | 0.15 | 23.85 | 490 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| T25_B | 18-Oct-23 | Trench | Floor | Final | Natural Ground | 24.6 | 0.6 | 24 | 535 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS25_B |
| T25_W1 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 24.6 | 0.3 | 24.3 | 545 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS25_W1 |
| T25_W2 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 24.6 | 0.3 | 24.3 | 560 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS25_W2 |
| T26_B | 18-Oct-23 | Trench | Floor | Final | Natural Ground | 24.1 | 0.45 | 23.65 | 383 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS26_B |

**C.1.2 Asbestos Results - Final Validation Samples**

| Sample ID | Sample Date | Main Grouping | Location | Final/ Redunant | Material Type | Surface Elevation (m AHD) | Sample Depth (m bgs) | Sample Depth (m AHD) | Sample Mass (g) | Sample Description | Asbestos Reported Result | NEPM HIL-A Criteria | | Sample ID Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | Bonded ACM 0.01 % | Friable Asbestos (FA and AF) 0.001% | |
| T26_W1 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 24.1 | 0.2 | 23.9 | 573 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS26_W1 |
| T26_W2 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 24.1 | 0.2 | 23.9 | 489 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS26_W2 |
| T27_B | 18-Oct-23 | Trench | Floor | Final | Natural Ground | 24.1 | 0.5 | 23.6 | 627 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS27_B |
| T27_W1 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 24.1 | 0.19 | 23.91 | 546 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS27_W1 |
| T27_W2 | 18-Oct-23 | Trench | Wall | Final | Natural Ground | 24.1 | 0.2 | 23.9 | 641 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | Sample ID used by lab is TS27_W2 |

## C.2.1 Chemical Results - Area Used to Stockpile Imported Materials

| | | | | | | | | | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | Dieldrin | Endosulfan I |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Remediation Criteria | | | | | | | | | - | - | - | 6 | - | 50 | - | - | - | - | 270 |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Depth** | **Sample Location** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | | | |
| V01_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| V02_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| V03_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| V04_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.8 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| V05_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.5 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| V06_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| V07_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.2 | <0.05 | <0.05 | <0.05 | <0.05 | 0.05 |
| QC01 DUP | 7/09/2023 | Floor Pre-material import check DUP | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Duplicate sample of V07_230908 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.7 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC02 TRIP | 7/09/2023 | Floor Pre-material import check TRIP | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Triplicate sample of V07_230908 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 | <0.05 |
| V08_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | 0.06 | <0.05 | <0.05 | <0.05 | <0.05 | 0.5 | <0.05 | <0.05 | 0.21 | <0.05 | <0.05 |
| V09_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.4 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| V10_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.5 | <0.05 | <0.05 | 0.07 | <0.05 | <0.05 |
| V11_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| V12_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

## C.2.1 Chemical Results - Area Used to Stockpile Imported Materials

| | | | | | | | | | Organochlorine Pesticides | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Endosulfan II | Endrin | Endrin aldehyde | Endrin ketone | g-BHC (Lindane) | Heptachlor | Methoxychlor | Organochlorine pesticides EPAVic | Other organochlorine pesticides EPAVic | Endosulfan | Endosulfan sulphate |
| | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 | 0.1 | 0.05 | 0.05 |
| Remediation Criteria | | | | | | | | | 270 | 10 | - | - | - | 6 | 300 | - | - | 270 | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Depth** | **Sample Location** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | | | |
| V01_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 |
| V02_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.3 | 0.3 | - | <0.05 |
| V03_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 |
| V04_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.8 | 1.8 | - | <0.05 |
| V05_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.5 | 0.5 | - | <0.05 |
| V06_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 |
| V07_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.25 | 1.25 | - | <0.05 |
| QC01 DUP | 7/09/2023 | Floor Pre-material import check DUP | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Duplicate sample of V07_230908 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.7 | 0.7 | - | <0.05 |
| QC02 TRIP | 7/09/2023 | Floor Pre-material import check TRIP | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Triplicate sample of V07_230908 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - | <0.05 | <0.05 |
| V08_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.77 | 0.5 | - | <0.05 |
| V09_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.4 | 0.4 | - | <0.05 |
| V10_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.57 | 0.5 | - | <0.05 |
| V11_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 |
| V12_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

## C.2.1 Chemical Results - Area Used to Stockpile Imported Materials

| | | | | | | | | | Heptachlor epoxide | Hexachlorobenzene | Toxaphene | DDT+DDE+DDD | Chlordane (cis) | Chlordane (trans) | Metals | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | Arsenic | Cadmium | Chromium (hexavalent) | Chromium (Total) | Copper |
| | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | 0.05 | 0.05 | 0.5 | 0.05 | 0.05 | 0.05 | 2 | 0.4 | 1 | 2 | 5 |
| Remediation Criteria | | | | | | | | | - | 10 | 20 | 240 | - | - | 160 (Note 1) | 20 | 100 | 12000 (Note 2) | 6000 |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Depth** | **Sample Location** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | | | |
| V01_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | - | <0.05 | - | - | 2.4 | <0.5 | - | 110 | 19 |
| V02_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 2.7 | <0.5 | - | 41 | 6.3 |
| V03_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 7.4 | <0.5 | - | 92 | 8.6 |
| V04_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 9.3 | <0.5 | - | 80 | 16 |
| V05_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 4.9 | <0.5 | - | 76 | 13 |
| V06_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 6 | <0.5 | - | 130 | 23 |
| V07_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 9.4 | <0.5 | - | 75 | 9.6 |
| QC01 DUP | 7/09/2023 | Floor Pre-material import check DUP | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Duplicate sample of V07_230908 | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 8.4 | <0.5 | - | 78 | 9.9 |
| QC02 TRIP | 7/09/2023 | Floor Pre-material import check TRIP | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Triplicate sample of V07_230908 | <0.05 | <0.05 | - | <0.05 | <0.05 | <0.05 | 7 | <1 | - | 87 | 10 |
| V08_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.5 | 0.27 | - | - | 11 | <0.5 | - | 93 | 12 |
| V09_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 6.6 | <0.5 | - | 74 | 12 |
| V10_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.5 | 0.07 | - | - | 8 | <0.5 | - | 98 | 14 |
| V11_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | <0.5 | <0.05 | - | - | 3.9 | <0.5 | - | 49 | 5.8 |
| V12_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <0.05 | <0.05 | - | <0.05 | - | - | 3.3 | <0.5 | - | 52 | 6.3 |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

## C.2.1 Chemical Results - Area Used to Stockpile Imported Materials

| | | | | | | | | | Lead | Mercury | Nickel | Zinc |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | 5 | 0.1 | 2 | 5 |
| Remediation Criteria | | | | | | | | | 300 | 40 | 400 | 7400 |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Depth** | **Sample Location** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | |
| V01_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | 5.3 | <0.1 | 55 | 32 |
| V02_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | <5 | <0.1 | 22 | 15 |
| V03_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | 9 | <0.1 | 55 | 52 |
| V04_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | 15 | <0.1 | 29 | 42 |
| V05_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | 8.7 | <0.1 | 36 | 27 |
| V06_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | 11 | <0.1 | 77 | 29 |
| V07_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | 9.5 | <0.1 | 21 | 26 |
| QC01 DUP | 7/09/2023 | Floor Pre-material import check DUP | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Duplicate sample of V07_230908 | 11 | <0.1 | 21 | 24 |
| QC02 TRIP | 7/09/2023 | Floor Pre-material import check TRIP | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Triplicate sample of V07_230908 | <5 | <0.1 | 19 | 13 |
| V08_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | 22 | <0.1 | 30 | 50 |
| V09_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | 8 | <0.1 | 29 | 38 |
| V10_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | 13 | <0.1 | 35 | 40 |
| V11_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | 5.4 | <0.1 | 27 | 16 |
| V12_230908 | 7/09/2023 | Floor Pre-material import check | Natural Ground | 0-0.1 m bgs | Floor | Imported Material | Redundant | Normal | 9.6 | <0.1 | 23 | 17 |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

**C.2.2 Asbestos Results - Area Used to Stockpile Imported Materials**

| Sample ID | Sample Date | Main Grouping | Location | Sample Depth (m bgs) | Final/ Redunant | Material Type | Sample Mass (g) | Sample Description | Asbestos Reported Result | NEPM HIL-A Criteria | | Sample ID Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Bonded ACM 0.01 % | Friable Asbestos (FA and AF) 0.001% | |
| V01_230908 | 7-Sep-23 | Imported Materials | Floor | 0-0.1 | Redundant | Natural Ground | 404 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| V02_230908 | 8-Sep-23 | Imported Materials | Floor | 0-0.1 | Redundant | Natural Ground | 459 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| V03_230908 | 9-Sep-23 | Imported Materials | Floor | 0-0.1 | Redundant | Natural Ground | 553 | Brown fine-grained clayey soil, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| V04_230908 | 10-Sep-23 | Imported Materials | Floor | 0-0.1 | Redundant | Natural Ground | 382 | Brown fine-grained clayey soil, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| V05_230908 | 11-Sep-23 | Imported Materials | Floor | 0-0.1 | Redundant | Natural Ground | 447 | Brown fine-grained clayey soil, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| V06_230908 | 12-Sep-23 | Imported Materials | Floor | 0-0.1 | Redundant | Natural Ground | 551 | Brown fine-grained clayey soil, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| V07_230908 | 13-Sep-23 | Imported Materials | Floor | 0-0.1 | Redundant | Natural Ground | 592 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| V08_230908 | 14-Sep-23 | Imported Materials | Floor | 0-0.1 | Redundant | Natural Ground | 620 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| V09_230908 | 15-Sep-23 | Imported Materials | Floor | 0-0.1 | Redundant | Natural Ground | 558 | Brown fine-grained clayey soil, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| V10_230908 | 16-Sep-23 | Imported Materials | Floor | 0-0.1 | Redundant | Natural Ground | 520 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| V11_230908 | 17-Sep-23 | Imported Materials | Floor | 0-0.1 | Redundant | Natural Ground | 378 | Brown fine-grained clayey soil, cement and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| V12_230908 | 18-Sep-23 | Imported Materials | Floor | 0-0.1 | Redundant | Natural Ground | 437 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |

## C.3.1 Chemical Results - Imported Materials

| Field ID | Date | Sample Area | Material Type | Sample Depth | Sample Location | Main Grouping | Final/Redundant | Sample Type | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Remediation Criteria | | | | | | | | | - | - | - | 6 | - | 50 | - | - | - |
| CF01_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| CF02_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| CF03_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| CF_04_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| CF_05_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| CF_06_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| IF01 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| IF01 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF02 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| IF02 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF03 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| IF03 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF04 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| IF04 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF05 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| IF05 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF06 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| IF06 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| LF 01 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 02 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 03 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 04 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 05 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 06 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| QC100 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Duplicate sample of LF 06 - 240404 | | | | | | | | | |
| QC200 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Triplicate sample of LF 06 - 240404 | | | | | | | | | |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

Note 3: Sample collected directly from stockpiled materials

Note 4: Sample sites LF01 to LF06 were replicated on the 24/4/2024 and the samples were analysed for Cr (Total) and Cr (VI)

## C.3.1 Chemical Results - Imported Materials

| | | | | | | | | | Organochlorine Pesticides | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Dieldrin | Endosulfan I | Endosulfan II | Endrin | Endrin aldehyde | Endrin ketone | g-BHC (Lindane) | Heptachlor | Methoxychlor |
| | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Remediation Criteria | | | | | | | | | - | 270 | 270 | 10 | - | - | - | 6 | 300 |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Depth** | **Sample Location** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | |
| CF01_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| CF02_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| CF03_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| CF_04_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| CF_05_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| CF_06_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| IF01 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| IF01 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF02 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| IF02 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF03 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| IF03 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF04 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| IF04 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF05 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| IF05 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF06 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| IF06 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| LF 01 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 02 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 03 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 04 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 05 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 06 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| QC100 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Duplicate sample of LF 06 - 240404 | | | | | | | | | |
| QC200 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Triplicate sample of LF 06 - 240404 | | | | | | | | | |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

Note 3: Sample collected directly from stockpiled materials

Note 4: Sample sites LF01 to LF06 were replicated on the 24/4/2024 and the samples were analysed for Cr (Total) and Cr (VI)

## C.3.1 Chemical Results - Imported Materials

| Field ID | Date | Sample Area | Material Type | Sample Depth | Sample Location | Main Grouping | Final/Redundant | Sample Type | Organochlorine pesticides EPAVic | Other organochlorine pesticides EPAVic | Endosulfan | Endosulfan sulphate | Heptachlor epoxide | Hexachlorobenzene | Toxaphene | DDT+DDE+DDD | Chlordane (cis) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | 0.1 | 0.1 | 0.05 | 0.05 | 0.05 | 0.05 | 0.5 | 0.05 | 0.05 |
| Remediation Criteria | | | | | | | | | - | - | 270 | - | - | 10 | 20 | 240 | - |
| CF01_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - |
| CF02_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - |
| CF03_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - |
| CF_04_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - |
| CF_05_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - |
| CF_06_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - |
| IF01 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - |
| IF01 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF02 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - |
| IF02 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF03 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - |
| IF03 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF04 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - |
| IF04 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF05 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - |
| IF05 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF06 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | - |
| IF06 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| LF 01 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 02 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 03 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 04 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 05 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 06 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| QC100 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Duplicate sample of LF 06 - 240404 | | | | | | | | | |
| QC200 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Triplicate sample of LF 06 - 240404 | | | | | | | | | |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

Note 3: Sample collected directly from stockpiled materials

Note 4: Sample sites LF01 to LF06 were replicated on the 24/4/2024 and the samples were analysed for Cr (Total) and Cr (VI)

## C.3.1 Chemical Results - Imported Materials

| | | | | | | | | | Metals | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Chlordane (trans) | Arsenic | Cadmium | Chromium (hexavalent) | Chromium (Total) | Copper | Lead | Mercury | Nickel |
| | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | 0.05 | 2 | 0.4 | 1 | 2 | 5 | 5 | 0.1 | 2 |
| Remediation Criteria | | | | | | | | | - | 160 (Note 1) | 20 | 100 | 12000 (Note 2) | 6000 | 300 | 40 | 400 |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Depth** | **Sample Location** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | |
| CF01_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | 3.9 | <0.5 | - | 140 | 81 | <5 | <0.1 | 45 |
| CF02_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | 8.9 | <0.5 | - | 160 | 60 | <5 | <0.1 | 48 |
| CF03_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | 5.1 | <0.5 | - | 170 | 99 | <5 | <0.1 | 51 |
| CF_04_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | 3.8 | <0.5 | - | 130 | 64 | <5 | <0.1 | 40 |
| CF_05_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | 3.7 | <0.5 | - | 180 | 79 | <5 | <0.1 | 52 |
| CF_06_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | 3.5 | <0.5 | - | 140 | 87 | <5 | <0.1 | 39 |
| IF01 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF01 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | 11 | <0.5 | - | 140 | 67 | <5 | <0.1 | 38 |
| IF02 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF02 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | 5.1 | <0.5 | - | 220 | 89 | <5 | <0.1 | 62 |
| IF03 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF03 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | 4.5 | <0.5 | - | 260 | 120 | <5 | <0.1 | 72 |
| IF04 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF04 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | 3.3 | <0.5 | - | 230 | 100 | <5 | <0.1 | 57 |
| IF05 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF05 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | 5 | <0.5 | - | 190 | 89 | <5 | <0.1 | 54 |
| IF06 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF06 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | 2.1 | <0.5 | - | 190 | 79 | <5 | <0.1 | 49 |
| LF 01 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | <0.5 | 53 | | | | |
| LF 02 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | <0.5 | 54 | | | | |
| LF 03 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | <0.5 | 59 | | | | |
| LF 04 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | <0.5 | 55 | | | | |
| LF 05 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | <0.5 | 62 | | | | |
| LF 06 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | <0.5 | 45 | | | | |
| QC100 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Duplicate sample of LF 06 - 240404 | | | | <0.5 | 47 | | | | |
| QC200 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Triplicate sample of LF 06 - 240404 | | | | <1 | 170 | | | | |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

Note 3: Sample collected directly from stockpiled materials

Note 4: Sample sites LF01 to LF06 were replicated on the 24/4/2024 and the samples were analysed for Cr (Total) and Cr (VI)

## C.3.1 Chemical Results - Imported Materials

| | | | | | | | | | | BTEX | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Zinc | Benzene | Toluene | Ethylbenzene | Xylene Total | Naphthalene (VOC) | Xylene (o) | Xylene (m & p) | C6 - C9 |
| | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | 5 | 0.1 | 0.1 | 0.1 | 0.3 | 0.5 | 0.1 | 0.2 | 20 |
| Remediation Criteria | | | | | | | | | 7400 | - | - | - | - | - | - | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Depth** | **Sample Location** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | |
| CF01_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | 29 | - | - | - | - | - | - | - | - |
| CF02_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | 32 | - | - | - | - | - | - | - | - |
| CF03_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | 34 | - | - | - | - | - | - | - | - |
| CF_04_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | 26 | - | - | - | - | - | - | - | - |
| CF_05_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | 35 | - | - | - | - | - | - | - | - |
| CF_06_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | 25 | - | - | - | - | - | - | - | - |
| IF01 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | <0.1 | <0.1 | <0.1 | <0.3 | <0.5 | <0.1 | <0.2 | <20 |
| IF01 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | 29 | - | - | - | - | - | - | - | - |
| IF02 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | <0.1 | <0.1 | <0.1 | <0.3 | <0.5 | <0.1 | <0.2 | <20 |
| IF02 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | 38 | - | - | - | - | - | - | - | - |
| IF03 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | <0.1 | <0.1 | <0.1 | <0.3 | <0.5 | <0.1 | <0.2 | <20 |
| IF03 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | 51 | - | - | - | - | - | - | - | - |
| IF04 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | <0.1 | <0.1 | <0.1 | <0.3 | <0.5 | <0.1 | <0.2 | <20 |
| IF04 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | 39 | - | - | - | - | - | - | - | - |
| IF05 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | <0.1 | <0.1 | <0.1 | <0.3 | <0.5 | <0.1 | <0.2 | <20 |
| IF05 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | 39 | - | - | - | - | - | - | - | - |
| IF06 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | <0.1 | <0.1 | <0.1 | <0.3 | <0.5 | <0.1 | <0.2 | <20 |
| IF06 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | 35 | - | - | - | - | - | - | - | - |
| LF 01 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 02 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 03 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 04 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 05 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 06 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| QC100 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Duplicate sample of LF 06 - 240404 | | | | | | | | | |
| QC200 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Triplicate sample of LF 06 - 240404 | | | | | | | | | |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

Note 3: Sample collected directly from stockpiled materials

Note 4: Sample sites LF01 to LF06 were replicated on the 24/4/2024 and the samples were analysed for Cr (Total) and Cr (VI)

## C.3.1 Chemical Results - Imported Materials

| | | | | | | | | | Total Petroleum Hydrocarbons | | | | | Total Recoverable Hydrocarbo | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | C10 - C14 | C15 - C28 | C29 - C36 | C10 - C36 (Sum of total) | C10 - C40 (Sum of total) | F1 (C6 - C10) | F1 (C6 - C10) less BTEX | F2 (C10 - C16) | F2 C10 - C16 (minus Naphthalene) |
| | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | 20 | 50 | 50 | 50 | 100 | 20 | 20 | 50 | 50 |
| Remediation Criteria | | | | | | | | | - | - | - | - | - | - | - | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Depth** | **Sample Location** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | |
| CF01_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF02_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF03_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_04_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_05_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_06_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF01 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <20 | <50 | <50 | <50 | <100 | <20 | <20 | <50 | <50 |
| IF01 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF02 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <20 | <50 | <50 | <50 | <100 | <20 | <20 | <50 | <50 |
| IF02 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF03 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <20 | <50 | <50 | <50 | <100 | <20 | <20 | <50 | <50 |
| IF03 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF04 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <20 | <50 | <50 | <50 | <100 | <20 | <20 | <50 | <50 |
| IF04 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF05 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <20 | <50 | <50 | <50 | <100 | <20 | <20 | <50 | <50 |
| IF05 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF06 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <20 | <50 | <50 | <50 | <100 | <20 | <20 | <50 | <50 |
| IF06 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| LF 01 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 02 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 03 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 04 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 05 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 06 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| QC100 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Duplicate sample of LF 06 - 240404 | | | | | | | | | |
| QC200 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Triplicate sample of LF 06 - 240404 | | | | | | | | | |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

Note 3: Sample collected directly from stockpiled materials

Note 4: Sample sites LF01 to LF06 were replicated on the 24/4/2024 and the samples were analysed for Cr (Total) and Cr (VI)

## C.3.1 Chemical Results - Imported Materials

| | | | | | | | | | ons | | Particle Size | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | F3 (C16 - C34) | F4 (C34 - C40) | Description | weight of sample | Chlorpyrifos-methyl | Demeton-S | Ethoprop | Fenitrothion | Fensulfothion |
| | | | | | | | | | mg/kg | mg/kg | - | g | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | 100 | 100 | | 0.01 | 0.05 | 0.2 | 0.2 | 0.2 | 0.2 |
| Remediation Criteria | | | | | | | | | - | - | - | - | - | - | - | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Depth** | **Sample Location** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | |
| CF01_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF02_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF03_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_04_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_05_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_06_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF01 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <100 | <100 | - | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| IF01 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF02 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <100 | <100 | - | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| IF02 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF03 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <100 | <100 | - | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| IF03 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF04 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <100 | <100 | - | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| IF04 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF05 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <100 | <100 | - | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| IF05 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF06 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <100 | <100 | - | - | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| IF06 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| LF 01 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 02 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 03 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 04 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 05 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 06 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| QC100 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Duplicate sample of LF 06 - 240404 | | | | | | | | | |
| QC200 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Triplicate sample of LF 06 - 240404 | | | | | | | | | |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

Note 3: Sample collected directly from stockpiled materials

Note 4: Sample sites LF01 to LF06 were replicated on the 24/4/2024 and the samples were analysed for Cr (Total) and Cr (VI)

## C.3.1 Chemical Results - Imported Materials

| Field ID | Date | Sample Area | Material Type | Sample Depth | Sample Location | Main Grouping | Final/Redundant | Sample Type | Malathion | Merphos | Omethoate | Pyrazophos | Terbufos | Tokuthion | Azinophos methyl | Bolstar (Sulprofos) | Bromophos-ethyl |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | 0.05 | 0.2 | 2 | 0.2 | 0.2 | 0.2 | 0.05 | 0.2 | 0.05 |
| Remediation Criteria | | | | | | | | | - | - | - | - | - | - | - | - | - |
| CF01_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF02_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF03_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_04_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_05_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_06_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF01 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | - |
| IF01 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF02 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | - |
| IF02 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF03 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | - |
| IF03 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF04 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | - |
| IF04 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF05 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | - |
| IF05 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF06 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | - |
| IF06 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| LF 01 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 02 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 03 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 04 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 05 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 06 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| QC100 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Duplicate sample of LF 06 - 240404 | | | | | | | | | |
| QC200 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Triplicate sample of LF 06 - 240404 | | | | | | | | | |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

Note 3: Sample collected directly from stockpiled materials

Note 4: Sample sites LF01 to LF06 were replicated on the 24/4/2024 and the samples were analysed for Cr (Total) and Cr (VI)

## C.3.1 Chemical Results - Imported Materials

| | | | | | | | | | Organophosphorous Pesticides | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Carbophenothion | Chlorfenvinphos | Chlorpyrifos | Coumaphos | Demeton-O | Diazinon | Dichlorvos | Disulfoton | Dimethoate |
| | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | 0.05 | 0.05 | 0.05 | 2 | 0.2 | 0.05 | 0.05 | 0.2 | 0.05 |
| Remediation Criteria | | | | | | | | | - | - | 160 | - | - | - | - | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Depth** | **Sample Location** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | |
| CF01_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF02_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF03_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_04_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_05_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_06_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF01 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| IF01 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF02 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| IF02 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF03 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| IF03 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF04 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| IF04 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF05 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| IF05 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF06 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| IF06 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| LF 01 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 02 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 03 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 04 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 05 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 06 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| QC100 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Duplicate sample of LF 06 - 240404 | | | | | | | | | |
| QC200 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Triplicate sample of LF 06 - 240404 | | | | | | | | | |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

Note 3: Sample collected directly from stockpiled materials

Note 4: Sample sites LF01 to LF06 were replicated on the 24/4/2024 and the samples were analysed for Cr (Total) and Cr (VI)

## C.3.1 Chemical Results - Imported Materials

| Field ID | Date | Sample Area | Material Type | Sample Depth | Sample Location | Main Grouping | Final/Redundant | Sample Type | Ethion | Fenthion | EPN | Methyl parathion | Mevinphos (Phosdrin) | Monocrotophos | Naled (Dibrom) | Parathion | Phorate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | 0.05 | 0.05 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Remediation Criteria | | | | | | | | | - | - | - | - | - | - | - | - | - |
| CF01_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF02_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF03_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_04_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_05_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_06_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF01 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 |
| IF01 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF02 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 |
| IF02 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF03 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 |
| IF03 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF04 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 |
| IF04 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF05 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 |
| IF05 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF06 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 |
| IF06 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| LF 01 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 02 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 03 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 04 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 05 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 06 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| QC100 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Duplicate sample of LF 06 - 240404 | | | | | | | | | |
| QC200 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Triplicate sample of LF 06 - 240404 | | | | | | | | | |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

Note 3: Sample collected directly from stockpiled materials

Note 4: Sample sites LF01 to LF06 were replicated on the 24/4/2024 and the samples were analysed for Cr (Total) and Cr (VI)

## C.3.1 Chemical Results - Imported Materials

| | | | | | | | | | Pirimiphos-methyl | Prothiofos | Ronnel | Trichloronate | Tetrachlorvinphos | Acenaphthene | Acenaphthylene | Benz(a)anthracene | Benzo(k)fluoranthene |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | 0.2 | 0.05 | 0.2 | 0.2 | 0.2 | 0.5 | 0.5 | 0.5 | 0.5 |
| Remediation Criteria | | | | | | | | | - | - | - | - | - | - | - | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Depth** | **Sample Location** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | |
| CF01_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF02_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF03_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_04_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_05_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_06_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF01 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.5 | <0.5 | <0.5 | <0.5 |
| IF01 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF02 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.5 | <0.5 | <0.5 | <0.5 |
| IF02 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF03 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.5 | <0.5 | <0.5 | <0.5 |
| IF03 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF04 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.5 | <0.5 | <0.5 | <0.5 |
| IF04 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF05 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.5 | <0.5 | <0.5 | <0.5 |
| IF05 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF06 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.2 | - | <0.2 | <0.2 | <0.2 | <0.5 | <0.5 | <0.5 | <0.5 |
| IF06 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| LF 01 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 02 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 03 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 04 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 05 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 06 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| QC100 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Duplicate sample of LF 06 - 240404 | | | | | | | | | |
| QC200 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Triplicate sample of LF 06 - 240404 | | | | | | | | | |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

Note 3: Sample collected directly from stockpiled materials

Note 4: Sample sites LF01 to LF06 were replicated on the 24/4/2024 and the samples were analysed for Cr (Total) and Cr (VI)

## C.3.1 Chemical Results - Imported Materials

| | | | | | | | | | Polycyclic Aromatic Hydrocarbons | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Chrysene | Benzo(b+j)fluoranthene | Dibenz(a,h)anthracene | Fluoranthene | Phenanthrene | PAHs (Sum of total) | Anthracene | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Half) |
| | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Remediation Criteria | | | | | | | | | - | - | - | - | - | 300 | - | 3 | 3 |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Depth** | **Sample Location** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | |
| CF01_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF02_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF03_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_04_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_05_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_06_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF01 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 |
| IF01 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF02 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 |
| IF02 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF03 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 |
| IF03 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF04 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 |
| IF04 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF05 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 |
| IF05 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF06 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | 0.6 |
| IF06 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| LF 01 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 02 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 03 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 04 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 05 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 06 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| QC100 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Duplicate sample of LF 06 - 240404 | | | | | | | | | |
| QC200 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Triplicate sample of LF 06 - 240404 | | | | | | | | | |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

Note 3: Sample collected directly from stockpiled materials

Note 4: Sample sites LF01 to LF06 were replicated on the 24/4/2024 and the samples were analysed for Cr (Total) and Cr (VI)

## C.3.1 Chemical Results - Imported Materials

| | | | | | | | | | | | | | | | | | Pesticides | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Benzo(a)pyrene TEQ calc (Zero) | Benzo(g,h,i)perylene | Indeno(1,2,3-c,d)pyrene | Pyrene | Naphthalene | Benzo(a) pyrene | Fluorene | Demeton-S-methyl | Fenamiphos |
| | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.05 | 0.05 |
| Remediation Criteria | | | | | | | | | 3 | - | - | - | - | - | - | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Depth** | **Sample Location** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | |
| CF01_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF02_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF03_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_04_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_05_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_06_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF01 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | - |
| IF01 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF02 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | - |
| IF02 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF03 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | - |
| IF03 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF04 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | - |
| IF04 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF05 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | - |
| IF05 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF06 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | - |
| IF06 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| LF 01 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 02 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 03 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 04 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 05 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 06 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| QC100 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Duplicate sample of LF 06 - 240404 | | | | | | | | | |
| QC200 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Triplicate sample of LF 06 - 240404 | | | | | | | | | |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

Note 3: Sample collected directly from stockpiled materials

Note 4: Sample sites LF01 to LF06 were replicated on the 24/4/2024 and the samples were analysed for Cr (Total) and Cr (VI)

## C.3.1 Chemical Results - Imported Materials

| Field ID | Date | Sample Area | Material Type | Sample Depth | Sample Location | Main Grouping | Final/Redundant | Sample Type | Pirimphos-ethyl | 10:2 Fluorotelomer sulfonic acid (10:2 FTS) | 4:2 Fluorotelomer sulfonic acid (4:2 FTS) | 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | N-Ethyl perfluorooctane sulfonamide (NEtFOSA) | N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE) | Perfluorononanesulfonic acid (PFNS) | Perfluorononanoic acid (PFNA) | Perfluorooctane sulfonamide (PFOSA) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | 0.05 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Remediation Criteria | | | | | | | | | - | - | - | - | - | - | - | - | - |
| CF01_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF02_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF03_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_04_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_05_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_06_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF01 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| IF01 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF02 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| IF02 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF03 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| IF03 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF04 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| IF04 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF05 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| IF05 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF06 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| IF06 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| LF 01 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 02 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 03 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 04 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 05 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 06 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| QC100 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Duplicate sample of LF 06 - 240404 | | | | | | | | | |
| QC200 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Triplicate sample of LF 06 - 240404 | | | | | | | | | |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

Note 3: Sample collected directly from stockpiled materials

Note 4: Sample sites LF01 to LF06 were replicated on the 24/4/2024 and the samples were analysed for Cr (Total) and Cr (VI)

## C.3.1 Chemical Results - Imported Materials

| | | | | | | | | | Per and po | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Perfluorooctanesulfonic acid (PFOS) | Perfluoropropanesulfonic acid (PFPrS) | Perfluorotetradecanoic acid (PFTeDA) | Perfluorotridecanoic acid (PFTrDA) | Sum of enHealth PFAS (PFHxS + PFOS + PFOA)* | Sum of PFAS (WA DER List)_ | Sum of PFASs (n=28) | Sum of US EPA PFAS (PFOS + PFOA)* | Perfluorobutane sulfonic acid (PFBS) |
| | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.01 | 0.05 | 0.005 | 0.005 |
| Remediation Criteria | | | | | | | | | - | - | - | - | - | - | - | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Depth** | **Sample Location** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | |
| CF01_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF02_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF03_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_04_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_05_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_06_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF01 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.01 | <0.05 | <0.005 | <0.005 |
| IF01 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF02 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.01 | <0.05 | <0.005 | <0.005 |
| IF02 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF03 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.01 | <0.05 | <0.005 | <0.005 |
| IF03 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF04 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.01 | <0.05 | <0.005 | <0.005 |
| IF04 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF05 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.01 | <0.05 | <0.005 | <0.005 |
| IF05 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF06 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.01 | <0.05 | <0.005 | <0.005 |
| IF06 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| LF 01 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 02 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 03 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 04 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 05 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 06 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| QC100 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Duplicate sample of LF 06 - 240404 | | | | | | | | | |
| QC200 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Triplicate sample of LF 06 - 240404 | | | | | | | | | |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

Note 3: Sample collected directly from stockpiled materials

Note 4: Sample sites LF01 to LF06 were replicated on the 24/4/2024 and the samples were analysed for Cr (Total) and Cr (VI)

## C.3.1 Chemical Results - Imported Materials

| | | | | | | | | | lyfluoroalkyl substances | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Perfluoropentane sulfonic acid (PFPeS) | Perfluorohexane sulfonic acid (PFHxS) | Perfluoroheptane sulfonic acid (PFHpS) | Perfluorodecane sulfonic acid (PFDS) | Perfluorobutanoic acid (PFBA) | Perfluoropentanoic acid (PFPeA) | Perfluorohexanoic acid (PFHxA) | Perfluoroheptanoic acid (PFHpA) | Perfluorooctanoic acid (PFOA) |
| | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Remediation Criteria | | | | | | | | | - | - | - | - | - | - | - | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Depth** | **Sample Location** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | |
| CF01_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF02_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF03_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_04_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_05_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_06_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF01 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| IF01 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF02 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| IF02 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF03 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| IF03 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF04 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| IF04 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF05 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| IF05 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF06 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| IF06 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| LF 01 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 02 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 03 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 04 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 05 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 06 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| QC100 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Duplicate sample of LF 06 - 240404 | | | | | | | | | |
| QC200 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Triplicate sample of LF 06 - 240404 | | | | | | | | | |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

Note 3: Sample collected directly from stockpiled materials

Note 4: Sample sites LF01 to LF06 were replicated on the 24/4/2024 and the samples were analysed for Cr (Total) and Cr (VI)

## C.3.1 Chemical Results - Imported Materials

| Field ID | Date | Sample Area | Material Type | Sample Depth | Sample Location | Main Grouping | Final/Redundant | Sample Type | N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE) | Perfluorodecanoic acid (PFDA) | Perfluoroundecanoic acid (PFUnDA) | Perfluorododecanoic acid (PFDoDA) | N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA) | N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA) | N-Methyl perfluorooctane sulfonamide (NMeFOSA) | 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | Sum (PFHxS + PFOS) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | 0.005 | 0.005 | 0.005 | 0.005 | 0.01 | 0.01 | 0.005 | 0.01 | 0.005 |
| Remediation Criteria | | | | | | | | | - | - | - | - | - | - | - | - | - |
| CF01_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF02_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF03_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_04_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_05_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| CF_06_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF01 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.005 | <0.005 | <0.005 | <0.005 | <0.01 | <0.01 | <0.005 | <0.01 | <0.005 |
| IF01 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF02 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.005 | <0.005 | <0.005 | <0.005 | <0.01 | <0.01 | <0.005 | <0.01 | <0.005 |
| IF02 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF03 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.005 | <0.005 | <0.005 | <0.005 | <0.01 | <0.01 | <0.005 | <0.01 | <0.005 |
| IF03 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF04 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.005 | <0.005 | <0.005 | <0.005 | <0.01 | <0.01 | <0.005 | <0.01 | <0.005 |
| IF04 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF05 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.005 | <0.005 | <0.005 | <0.005 | <0.01 | <0.01 | <0.005 | <0.01 | <0.005 |
| IF05 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| IF06 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | <0.005 | <0.005 | <0.005 | <0.005 | <0.01 | <0.01 | <0.005 | <0.01 | <0.005 |
| IF06 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | - | - | - | - | - | - | - | - |
| LF 01 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 02 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 03 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 04 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 05 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| LF 06 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | | | | | | | |
| QC100 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Duplicate sample of LF 06 - 240404 | | | | | | | | | |
| QC200 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Triplicate sample of LF 06 - 240404 | | | | | | | | | |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

Note 3: Sample collected directly from stockpiled materials

Note 4: Sample sites LF01 to LF06 were replicated on the 24/4/2024 and the samples were analysed for Cr (Total) and Cr (VI)

## C.3.1 Chemical Results - Imported Materials

| | | | | | | | | | Other | Physical Parameters | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Weight Used for % Calculation | Moisture Content (dried @ 103°C) | Moisture Content |
| | | | | | | | | | kg | % | % |
| **EQL** | | | | | | | | | 0.0001 | 1 | 1 |
| Remediation Criteria | | | | | | | | | - | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Depth** | **Sample Location** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | |
| CF01_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | 3.6 | - |
| CF02_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | 3.8 | - |
| CF03_230612 | 12/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | 4.1 | - |
| CF_04_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | 3.2 | - |
| CF_05_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | 3.3 | - |
| CF_06_230918 | 18/09/2023 | Imported Material - Redundant | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | 4.9 | - |
| IF01 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | 2.4 | - |
| IF01 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | 2.4 | - |
| IF02 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | <1 | - |
| IF02 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | <1 | - |
| IF03 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | <1 | - |
| IF03 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | <1 | - |
| IF04 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | <1 | - |
| IF04 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | <1 | - |
| IF05 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | 3 | - |
| IF05 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | 2.8 | - |
| IF06 | 26/10/2023 | Imported Material | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | 2.8 | - |
| IF06 (Rebatch 8-Metals) | 26/10/2023 | Imported Material (Rebatch) | Imported Material | Note 3 | N/A | Imported Material | Final | Normal | - | 2.4 | - |
| LF 01 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | |
| LF 02 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | |
| LF 03 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | |
| LF 04 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | |
| LF 05 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | |
| LF 06 - 240404 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Normal | | | |
| QC100 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Duplicate sample of LF 06 - 240404 | | | |
| QC200 | 24/04/2024 | Imported Material | Imported Material | Note 4 | N/A | Imported Material | Final | Triplicate sample of LF 06 - 240404 | | | |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

Note 3: Sample collected directly from stockpiled materials

Note 4: Sample sites LF01 to LF06 were replicated on the 24/4/2024 and the samples were analysed for Cr (Total) and Cr (VI)

**C.3.2 Asbestos Results - Imported Material**

| Sample ID | Sample Date | Main Grouping | Location | Final/ Redunant | Material Type | Sample Depth | Sample Mass (g) | Sample Description | Asbestos Reported Result | NEPM HIL-A Criteria | | Sample ID Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Bonded ACM 0.01 % | Friable Asbestos (FA and AF) 0.001% | |
| CF01_230612 | 12-Sep-23 | Imported Materials | N/A | Final | Imported Materials | Note 1 | 987 | Sample consisted of: Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| CF02_230612 | 12-Sep-23 | Imported Materials | N/A | Final | Imported Materials | Note 1 | 982 | Sample consisted of: Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| CF02_230612 | 12-Sep-23 | Imported Materials | N/A | Final | Imported Materials | Note 1 | 1022 | Sample consisted of: Brown coarse-grained soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| IF01 | 26-Oct-23 | Imported Materials | N/A | Final | Imported Materials | Note 1 | 981 | Sample consisted of: Brown fine-grained soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| IF02 | 26-Oct-23 | Imported Materials | N/A | Final | Imported Materials | Note 1 | 979 | Sample consisted of: Brown fine-grained soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| IF03 | 26-Oct-23 | Imported Materials | N/A | Final | Imported Materials | Note 1 | 857 | Sample consisted of: Brown fine-grained soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| IF04 | 26-Oct-23 | Imported Materials | N/A | Final | Imported Materials | Note 1 | 655 | Sample consisted of: Brown fine-grained soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| IF05 | 26-Oct-23 | Imported Materials | N/A | Final | Imported Materials | Note 1 | 734 | Sample consisted of: Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| IF06 | 26-Oct-23 | Imported Materials | N/A | Final | Imported Materials | Note 1 | 773 | Sample consisted of: Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |

Note 1: sample collected from stockpiled materials

## C.4.1 Chemical Results - Redundant Samples

| Field ID | Date | Sample Area | Material Type | Sample Location | Sample Depth (m bgs) | Main Grouping | Final/Redundant | Sample Type | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | Dieldrin | Endosulfan I | Endosulfan II |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Remediation Criteria | | | | | | | | | - | - | - | 6 | - | 50 | - | - | - | - | 270 | 270 |
| HSB09 | 18/10/2023 | Northern Boundary | Natural Ground | Floor | 0-0.1 | Boundary | Redundant | Normal | <0.05 | <0.05 | <0.05 | 1 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 1 | <0.05 | <0.05 |
| HSB10 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HSB11 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HSB12 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HSB13 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HSB14 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | <0.05 | <0.05 | <0.05 | 0.08 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.08 | <0.05 | <0.05 |
| HSB15 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | <0.05 | <0.05 | <0.05 | 0.08 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.08 | <0.05 | <0.05 |
| HSB16 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HSB17 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | <0.05 | <0.05 | <0.05 | 0.24 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.24 | <0.05 | <0.05 |
| HSB01_TS_230920 | 20/09/2023 | Newdegate St Boundary | Topsoil | Wall | 0-0.1 | Boundary | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB01_ASH_230920 | 20/09/2023 | Newdegate St Boundary | Ash Fill | Wall | 0.35 | Boundary | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB01_NW_230920 | 20/09/2023 | Newdegate St Boundary | Natural Ground | Wall | 0.5 | Boundary | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB02_TS_230920 | 20/09/2023 | Newdegate St Boundary | Topsoil | Wall | 0-0.1 | Boundary | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB02_ASH_230920 | 20/09/2023 | Newdegate St Boundary | Ash Fill | Wall | 0.3 | Boundary | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB02_NW_230920 | 20/09/2023 | Newdegate St Boundary | Natural Ground | Wall | 0.4 | Boundary | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB03_TS_230920 | 20/09/2023 | Newdegate St Boundary | Topsoil | Wall | 0-0.1 | Boundary | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB03_ASH_230920 | 20/09/2023 | Newdegate St Boundary | Ash Fill | Wall | 0.5 | Boundary | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC06_230920 | 20/09/2023 | Newdegate St Boundary | Ash Fill | Wall | 0.5 | Boundary | Redundant | Duplicate of HSB03_ASH_230920 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| QC07_230920 | 20/09/2023 | Newdegate St Boundary | Ash Fill | Wall | 0.5 | Boundary | Redundant | Triplicate of HSB03_ASH_230920 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 | <0.05 | <0.05 |
| HSB03_NW_230920 | 20/09/2023 | Newdegate St Boundary | Natural Ground | Wall | 0.6 | Boundary | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

## C.4.1 Chemical Results - Redundant Samples

| | | | | | | | | | Organochlorine Pesticides | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Endrin | Endrin aldehyde | Endrin ketone | g-BHC (Lindane) | Heptachlor | Methoxychlor | Organochlorine pesticides EPAVic | Other organochlorine pesticides EPAVic | Endosulfan | Endosulfan sulphate | Heptachlor epoxide | Hexachlorobenzene |
| | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 | 0.1 | 0.05 | 0.05 | 0.05 | 0.05 |
| Remediation Criteria | | | | | | | | | 10 | - | - | - | 6 | 300 | - | - | 270 | - | - | 10 |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Sample Depth (m bgs)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | | | | |
| HSB09 | 18/10/2023 | Northern Boundary | Natural Ground | Floor | 0-0.1 | Boundary | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1 | <0.1 | - | <0.05 | <0.05 | <0.05 |
| HSB10 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | <1 | - | <0.5 | <0.5 | <0.5 |
| HSB11 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | <1 | - | <0.5 | <0.5 | <0.5 |
| HSB12 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | <1 | - | <0.5 | <0.5 | <0.5 |
| HSB13 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | <1 | - | <0.5 | <0.5 | <0.5 |
| HSB14 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 |
| HSB15 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 |
| HSB16 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <1 | <1 | - | <0.5 | <0.5 | <0.5 |
| HSB17 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.24 | <0.1 | - | <0.05 | <0.05 | <0.05 |
| HSB01_TS_230920 | 20/09/2023 | Newdegate St Boundary | Topsoil | Wall | 0-0.1 | Boundary | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 |
| HSB01_ASH_230920 | 20/09/2023 | Newdegate St Boundary | Ash Fill | Wall | 0.35 | Boundary | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 |
| HSB01_NW_230920 | 20/09/2023 | Newdegate St Boundary | Natural Ground | Wall | 0.5 | Boundary | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 |
| HSB02_TS_230920 | 20/09/2023 | Newdegate St Boundary | Topsoil | Wall | 0-0.1 | Boundary | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 |
| HSB02_ASH_230920 | 20/09/2023 | Newdegate St Boundary | Ash Fill | Wall | 0.3 | Boundary | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 |
| HSB02_NW_230920 | 20/09/2023 | Newdegate St Boundary | Natural Ground | Wall | 0.4 | Boundary | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 |
| HSB03_TS_230920 | 20/09/2023 | Newdegate St Boundary | Topsoil | Wall | 0-0.1 | Boundary | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 |
| HSB03_ASH_230920 | 20/09/2023 | Newdegate St Boundary | Ash Fill | Wall | 0.5 | Boundary | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 |
| QC06_230920 | 20/09/2023 | Newdegate St Boundary | Ash Fill | Wall | 0.5 | Boundary | Redundant | Duplicate of HSB03_ASH_230920 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 |
| QC07_230920 | 20/09/2023 | Newdegate St Boundary | Ash Fill | Wall | 0.5 | Boundary | Redundant | Triplicate of HSB03_ASH_230920 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - | <0.05 | <0.05 | <0.05 | <0.05 |
| HSB03_NW_230920 | 20/09/2023 | Newdegate St Boundary | Natural Ground | Wall | 0.6 | Boundary | Redundant | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

## C.4.1 Chemical Results - Redundant Samples

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Metals | | | | | | | | | |
| | | | | | | | | | Toxaphene | DDT+DDE+DDD | Chlordane (cis) | Chlordane (trans) | Arsenic | Cadmium | Chromium (hexavalent) | Chromium (Total) | Copper | Lead | Mercury | Nickel |
| | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | 0.5 | 0.05 | 0.05 | 0.05 | 2 | 0.4 | 1 | 2 | 5 | 5 | 0.1 | 2 |
| Remediation Criteria | | | | | | | | | 20 | 240 | - | - | 160 (Note 1) | 20 | 100 | 12000 (Note 2) | 6000 | 300 | 40 | 400 |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Sample Depth (m bgs)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | | | | |
| HSB09 | 18/10/2023 | Northern Boundary | Natural Ground | Floor | 0-0.1 | Boundary | Redundant | Normal | <0.5 | <0.05 | - | - | 80 | <0.4 | - | 48 | 26 | 170 | 0.1 | 22 |
| HSB10 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | <10 | <0.5 | - | - | 30 | <0.4 | - | 69 | 27 | 100 | <0.1 | 40 |
| HSB11 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | <10 | <0.5 | - | - | 23 | <0.4 | - | 45 | 19 | 120 | 0.1 | 23 |
| HSB12 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | <10 | <0.5 | - | - | 21 | <0.4 | - | 120 | 19 | 66 | <0.1 | 35 |
| HSB13 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | <10 | <0.5 | - | - | 10 | <0.4 | - | 79 | 19 | 50 | <0.1 | 21 |
| HSB14 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | <0.5 | <0.05 | - | - | 4.5 | <0.4 | - | 43 | 7.6 | 6.8 | <0.1 | 11 |
| HSB15 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | <0.5 | <0.05 | - | - | 22 | <0.4 | - | 28 | 9 | 19 | <0.1 | 6.8 |
| HSB16 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | <10 | <0.5 | - | - | 16 | <0.4 | - | 80 | 16 | 31 | <0.1 | 22 |
| HSB17 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | <0.5 | <0.05 | - | - | 12 | 0.4 | - | 48 | 33 | 130 | 0.2 | 19 |
| HSB01_TS_230920 | 20/09/2023 | Newdegate St Boundary | Topsoil | Wall | 0-0.1 | Boundary | Redundant | Normal | - | <0.05 | - | - | 23 | <0.5 | - | 41 | 27 | 280 | <0.1 | 18 |
| HSB01_ASH_230920 | 20/09/2023 | Newdegate St Boundary | Ash Fill | Wall | 0.35 | Boundary | Redundant | Normal | - | <0.05 | - | - | 20 | <0.5 | - | 22 | 33 | 39 | <0.1 | 14 |
| HSB01_NW_230920 | 20/09/2023 | Newdegate St Boundary | Natural Ground | Wall | 0.5 | Boundary | Redundant | Normal | - | <0.05 | - | - | 12 | <0.5 | - | 50 | 9.1 | 5.2 | <0.1 | 22 |
| HSB02_TS_230920 | 20/09/2023 | Newdegate St Boundary | Topsoil | Wall | 0-0.1 | Boundary | Redundant | Normal | - | <0.05 | - | - | 35 | <0.5 | - | 28 | 68 | 210 | <0.1 | 40 |
| HSB02_ASH_230920 | 20/09/2023 | Newdegate St Boundary | Ash Fill | Wall | 0.3 | Boundary | Redundant | Normal | - | <0.05 | - | - | 12 | <0.5 | - | 8.1 | 23 | 40 | <0.1 | 6 |
| HSB02_NW_230920 | 20/09/2023 | Newdegate St Boundary | Natural Ground | Wall | 0.4 | Boundary | Redundant | Normal | - | <0.05 | - | - | 8.2 | <0.5 | - | 54 | 8.4 | 11 | <0.1 | 24 |
| HSB03_TS_230920 | 20/09/2023 | Newdegate St Boundary | Topsoil | Wall | 0-0.1 | Boundary | Redundant | Normal | - | <0.05 | - | - | 13 | <0.5 | - | 42 | 26 | 200 | <0.1 | 26 |
| HSB03_ASH_230920 | 20/09/2023 | Newdegate St Boundary | Ash Fill | Wall | 0.5 | Boundary | Redundant | Normal | - | <0.05 | - | - | 21 | <0.5 | - | 11 | 37 | 48 | <0.1 | 11 |
| QC06_230920 | 20/09/2023 | Newdegate St Boundary | Ash Fill | Wall | 0.5 | Boundary | Redundant | Duplicate of HSB03_ASH_230920 | - | <0.05 | - | - | 18 | <0.5 | - | 8.3 | 40 | 62 | <0.1 | 11 |
| QC07_230920 | 20/09/2023 | Newdegate St Boundary | Ash Fill | Wall | 0.5 | Boundary | Redundant | Triplicate of HSB03_ASH_230920 | - | <0.05 | <0.05 | <0.05 | 24 | <1 | - | 6 | 39 | 44 | <0.1 | 9 |
| HSB03_NW_230920 | 20/09/2023 | Newdegate St Boundary | Natural Ground | Wall | 0.6 | Boundary | Redundant | Normal | - | <0.05 | - | - | 3.5 | <0.5 | - | 53 | 5.9 | <5 | <0.1 | 18 |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

## C.4.1 Chemical Results - Redundant Samples

| | | | | | | | | | Zinc | Acenaphthene | Acenaphthylene | Benz(a)anthracene | Benzo(k)fluoranthene | Chrysene | Benzo(b+j)fluoranthene | Dibenz(a,h)anthracene | Fluoranthene | Phenanthrene | PAHs (Sum of total) | Anthracene |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Polycyclic Aromatic Hydrocarb | | | | | | | | | | |
| | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | 5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Remediation Criteria | | | | | | | | | 7400 | - | - | - | - | - | - | - | - | - | 300 | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Sample Depth (m bgs)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | | | | |
| HSB09 | 18/10/2023 | Northern Boundary | Natural Ground | Floor | 0-0.1 | Boundary | Redundant | Normal | 480 | - | - | - | - | - | - | - | - | - | - | - |
| HSB10 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | 380 | - | - | - | - | - | - | - | - | - | - | - |
| HSB11 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | 280 | - | - | - | - | - | - | - | - | - | - | - |
| HSB12 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | 180 | - | - | - | - | - | - | - | - | - | - | - |
| HSB13 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | 140 | - | - | - | - | - | - | - | - | - | - | - |
| HSB14 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | 18 | - | - | - | - | - | - | - | - | - | - | - |
| HSB15 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | 77 | - | - | - | - | - | - | - | - | - | - | - |
| HSB16 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | 140 | - | - | - | - | - | - | - | - | - | - | - |
| HSB17 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | 310 | - | - | - | - | - | - | - | - | - | - | - |
| HSB01_TS_230920 | 20/09/2023 | Newdegate St Boundary | Topsoil | Wall | 0-0.1 | Boundary | Redundant | Normal | 440 | - | - | - | - | - | - | - | - | - | - | - |
| HSB01_ASH_230920 | 20/09/2023 | Newdegate St Boundary | Ash Fill | Wall | 0.35 | Boundary | Redundant | Normal | 110 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | <0.5 |
| HSB01_NW_230920 | 20/09/2023 | Newdegate St Boundary | Natural Ground | Wall | 0.5 | Boundary | Redundant | Normal | 19 | - | - | - | - | - | - | - | - | - | - | - |
| HSB02_TS_230920 | 20/09/2023 | Newdegate St Boundary | Topsoil | Wall | 0-0.1 | Boundary | Redundant | Normal | 290 | - | - | - | - | - | - | - | - | - | - | - |
| HSB02_ASH_230920 | 20/09/2023 | Newdegate St Boundary | Ash Fill | Wall | 0.3 | Boundary | Redundant | Normal | 80 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HSB02_NW_230920 | 20/09/2023 | Newdegate St Boundary | Natural Ground | Wall | 0.4 | Boundary | Redundant | Normal | 26 | - | - | - | - | - | - | - | - | - | - | - |
| HSB03_TS_230920 | 20/09/2023 | Newdegate St Boundary | Topsoil | Wall | 0-0.1 | Boundary | Redundant | Normal | 400 | - | - | - | - | - | - | - | - | - | - | - |
| HSB03_ASH_230920 | 20/09/2023 | Newdegate St Boundary | Ash Fill | Wall | 0.5 | Boundary | Redundant | Normal | 72 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| QC06_230920 | 20/09/2023 | Newdegate St Boundary | Ash Fill | Wall | 0.5 | Boundary | Redundant | Duplicate of HSB03_ASH_230920 | 79 | - | - | - | - | - | - | - | - | - | - | - |
| QC07_230920 | 20/09/2023 | Newdegate St Boundary | Ash Fill | Wall | 0.5 | Boundary | Redundant | Triplicate of HSB03_ASH_230920 | 80 | - | - | - | - | - | - | - | - | - | - | - |
| HSB03_NW_230920 | 20/09/2023 | Newdegate St Boundary | Natural Ground | Wall | 0.6 | Boundary | Redundant | Normal | 14 | - | - | - | - | - | - | - | - | - | - | - |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

## C.4.1 Chemical Results - Redundant Samples

| | | | | | | | | | ons | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(g,h,i)perylene | Indeno(1,2,3-c,d)pyrene | Pyrene | Naphthalene | Benzo(a) pyrene | Fluorene |
| | | | | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Remediation Criteria | | | | | | | | | 3 | 3 | 3 | - | - | - | - | - | - |
| **Field ID** | **Date** | **Sample Area** | **Material Type** | **Sample Location** | **Sample Depth (m bgs)** | **Main Grouping** | **Final/Redundant** | **Sample Type** | | | | | | | | | |
| HSB09 | 18/10/2023 | Northern Boundary | Natural Ground | Floor | 0-0.1 | Boundary | Redundant | Normal | - | - | - | - | - | - | - | - | - |
| HSB10 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | - | - | - | - | - | - | - | - | - |
| HSB11 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | - | - | - | - | - | - | - | - | - |
| HSB12 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | - | - | - | - | - | - | - | - | - |
| HSB13 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | - | - | - | - | - | - | - | - | - |
| HSB14 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | - | - | - | - | - | - | - | - | - |
| HSB15 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | - | - | - | - | - | - | - | - | - |
| HSB16 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | - | - | - | - | - | - | - | - | - |
| HSB17 | 18/10/2023 | Northern Boundary | Topsoil | Floor | 0-0.1 | Boundary | Redundant | Normal | - | - | - | - | - | - | - | - | - |
| HSB01_TS_230920 | 20/09/2023 | Newdegate St Boundary | Topsoil | Wall | 0-0.1 | Boundary | Redundant | Normal | - | - | - | - | - | - | - | - | - |
| HSB01_ASH_230920 | 20/09/2023 | Newdegate St Boundary | Ash Fill | Wall | 0.35 | Boundary | Redundant | Normal | 1.2 | 0.6 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HSB01_NW_230920 | 20/09/2023 | Newdegate St Boundary | Natural Ground | Wall | 0.5 | Boundary | Redundant | Normal | - | - | - | - | - | - | - | - | - |
| HSB02_TS_230920 | 20/09/2023 | Newdegate St Boundary | Topsoil | Wall | 0-0.1 | Boundary | Redundant | Normal | - | - | - | - | - | - | - | - | - |
| HSB02_ASH_230920 | 20/09/2023 | Newdegate St Boundary | Ash Fill | Wall | 0.3 | Boundary | Redundant | Normal | 1.2 | 0.6 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| HSB02_NW_230920 | 20/09/2023 | Newdegate St Boundary | Natural Ground | Wall | 0.4 | Boundary | Redundant | Normal | - | - | - | - | - | - | - | - | - |
| HSB03_TS_230920 | 20/09/2023 | Newdegate St Boundary | Topsoil | Wall | 0-0.1 | Boundary | Redundant | Normal | - | - | - | - | - | - | - | - | - |
| HSB03_ASH_230920 | 20/09/2023 | Newdegate St Boundary | Ash Fill | Wall | 0.5 | Boundary | Redundant | Normal | 1.2 | 0.6 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| QC06_230920 | 20/09/2023 | Newdegate St Boundary | Ash Fill | Wall | 0.5 | Boundary | Redundant | Duplicate of HSB03_ASH_230920 | - | - | - | - | - | - | - | - | - |
| QC07_230920 | 20/09/2023 | Newdegate St Boundary | Ash Fill | Wall | 0.5 | Boundary | Redundant | Triplicate of HSB03_ASH_230920 | - | - | - | - | - | - | - | - | - |
| HSB03_NW_230920 | 20/09/2023 | Newdegate St Boundary | Natural Ground | Wall | 0.6 | Boundary | Redundant | Normal | - | - | - | - | - | - | - | - | - |

Note 1: Modified Arsenic Criteria - Refer to Appendix K

Note 2: Modified criteria for Chromium (Total) based on USEPA Chromium III (refer to Section 7.3 in the Validation Report)

**C.4.2 Asbestos Results - Redundant Samples**

| Sample ID | Sample Date | Main Grouping | Location | Sample Depth (m bgs) | Final/ Redunant | Material Type | Sample Mass (g) | Sample Description | Asbestos Reported Result | NEPM HIL-A Criteria | | Sample ID Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Bonded ACM 0.01 % | Friable Asbestos (FA and AF) 0.001% | |
| HSB01_TS_230920 | 20-Sep-23 | Western Boundary | Wall | 0-0.1 | Redundant | Topsoil | 638 | Brown coarse grained sandy clayey soil, rocks and debris | ACM:<br>Chrysotile asbestos detected in fibre cement material.<br>Approximate raw weight of ACM = 0.17g<br>Total estimated asbestos content in ACM = 0.017g*<br>Total estimated asbestos concentration in ACM = 0.0027% w/w*<br>No asbestos detected at the reporting limit of 0.01% w/w.*<br><br>Organic fibre detected.<br>No trace asbestos detected. | 0.0027% | Non-detect | - |
| HSB01_ASH_230920 | 20-Sep-23 | Newdegate St Boundary | Wall | 0.35 | Redundant | Ash Fill | 534 | Brown coarse-grained soil, coal, rocks and debris | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB01_NW_230920 | 20-Sep-23 | Newdegate St Boundary | Wall | 0.5 | Redundant | Natural Ground | 689 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB02_TS_230920 | 20-Sep-23 | Newdegate St Boundary | Wall | 0-0.1 | Redundant | Topsoil | 575 | Brown coarse grained sandy clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB02_ASH_230920 | 20-Sep-23 | Newdegate St Boundary | Wall | 0.3 | Redundant | Ash Fill | 526 | Brown coarse-grained soil, coal, rocks and debris | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB02_NW_230920 | 20-Sep-23 | Newdegate St Boundary | Wall | 0.4 | Redundant | Natural Ground | 639 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB03_TS_230920 | 20-Sep-23 | Newdegate St Boundary | Wall | 0-0.1 | Redundant | Topsoil | 550 | Brown fine-grained clayey soil, coal and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB03_ASH_230920 | 20-Sep-23 | Newdegate St Boundary | Wall | 0.5 | Redundant | Ash Fill | 547 | Brown coarse-grained soil, coal, rocks and debris | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB03_NW_230920 | 20-Sep-23 | Newdegate St Boundary | Wall | 0.6 | Redundant | Natural Ground | 563 | Brown fine-grained clayey soil, coal and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| QC06_230920 | 20-Sep-23 | Newdegate St Boundary | Wall | 0.5 | Redundant | Ash Fill | 47 | Brown coarse-grained soil, coal and rocks | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB09 | 18-Oct-23 | Northern Boundary | Floor | 0-0.1 | Redundant | Natural Ground | 359 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB10 | 18-Oct-23 | Northern Boundary | Floor | 0-0.1 | Redundant | Topsoil | 526 | Brown fine-grained clayey soil and rocks | AF:<br>Chrysotile asbestos detected in the form of loose fibre bundles.<br>Approximate raw weight of AF = 0.071g*<br>Estimated asbestos content in AF = 0.064g*<br>Total estimated asbestos concentration in AF = 0.012% w/w*<br><br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | 0.012% | - |
| HSB11 | 18-Oct-23 | Northern Boundary | Floor | 0-0.1 | Redundant | Topsoil | 446 | Brown fine-grained clayey soil, organic debris and rocks | AF:<br>Chrysotile asbestos detected in the form of loose fibre bundles.<br>Approximate raw weight of AF = 0.080g*<br>Estimated asbestos content in AF = 0.072g*<br>Total estimated asbestos concentration in AF = 0.016% w/w*<br><br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | 0.016% | - |

**C.4.2 Asbestos Results - Redundant Samples**

| Sample ID | Sample Date | Main Grouping | Location | Sample Depth (m bgs) | Final/ Redunant | Material Type | Sample Mass (g) | Sample Description | Asbestos Reported Result | NEPM HIL-A Criteria | | Sample ID Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Bonded ACM 0.01 % | Friable Asbestos (FA and AF) 0.001% | |
| HSB12 | 18-Oct-23 | Northern Boundary | Floor | 0-0.1 | Redundant | Topsoil | 548 | Brown fine-grained clayey soil, organic debris and rocks | AF:<br>Chrysotile asbestos detected in the form of loose fibre bundles.<br>Approximate raw weight of AF = 0.029g*<br>Estimated asbestos content in AF = 0.026g*<br>Total estimated asbestos concentration in AF = 0.0047% w/w*<br><br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | 0.0047% | - |
| HSB13 | 18-Oct-23 | Northern Boundary | Floor | 0-0.1 | Redundant | Topsoil | 535 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB14 | 18-Oct-23 | Northern Boundary | Floor | 0-0.1 | Redundant | Topsoil | 530 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB15 | 18-Oct-23 | Northern Boundary | Floor | 0-0.1 | Redundant | Topsoil | 663 | Brown fine-grained clayey soil and rocks | No asbestos detected at the reporting limit of 0.001% w/w.*<br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | Non-detect | - |
| HSB16 | 18-Oct-23 | Northern Boundary | Floor | 0-0.1 | Redundant | Topsoil | 617 | Brown fine-grained clayey soil and rocks | AF:<br>Chrysotile asbestos detected in the form of loose fibre bundles.<br>Approximate raw weight of AF = 0.027g*<br>Estimated asbestos content in AF = 0.024g*<br>Total estimated asbestos concentration in AF = 0.0039% w/w*<br><br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | 0.0039% | - |
| HSB17 | 18-Oct-23 | Northern Boundary | Floor | 0-0.1 | Redundant | Topsoil | 620 | Brown fine-grained clayey soil, glass, organic debris and rocks | FA:<br>Chrysotile asbestos detected in weathered fibre plaster material.<br>Approximate raw weight of FA = 0.023g<br>Estimated asbestos content in FA = 0.0092g*<br>Total estimated asbestos concentration in FA = 0.0015% w/w*<br><br>Organic fibre detected.<br>No trace asbestos detected. | Non-detect | 0.0015% | - |

## C.5.1 Chemical Results - Area 1C Confirmatory Samples for Waste Disposal

| | | | | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | Dieldrin | Endosulfan I | Endosulfan II | Endrin | Endrin aldehyde | Endrin ketone | g-BHC (Lindane) | Heptachlor | Methoxychlor | Endosulfan | Endosulfan sulphate | Heptachlor epoxide | Hexachlorobenzene | Toxaphene | DDT+DDE+DDD | Total OCP |
| | | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **EQL** | | | | | | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.5 | 0.05 | 0.1 |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 50 |
| **Field ID** | **Date** | **Sample Area** | **Sample Depth (m bgs)** | **Material Type** | **Sample Type** | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1C1_230831 | 31/08/2023 | Area 1C | 0-0.1 | Surface Sample | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.1 |
| 1C2_230831 | 31/08/2023 | Area 1C | 0-0.1 | Surface Sample | Normal | <0.05 | <0.05 | <0.05 | 11 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 11 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | 11 |
| 1C3_230831 | 31/08/2023 | Area 1C | 0-0.1 | Surface Sample | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.1 |
| 1C4_230831 | 31/08/2023 | Area 1C | 0-0.1 | Surface Sample | Normal | <0.05 | <0.05 | <0.05 | 0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.1 |
| 1C5_230831 | 31/08/2023 | Area 1C | 0-0.1 | Surface Sample | Normal | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.1 |
| 1C6_230831 | 31/08/2023 | Area 1C | 0-0.1 | Surface Sample | Normal | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 | <0.5 | - | <0.5 | <0.5 |

**C.5.2 Chemical Results - Area 1C Confirmatory Samples for Waste Disposal - Organochlorine Pesticides - TCLP Results**

| | | | | | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | Dieldrin | Endosulfan I | Endosulfan II | Endrin | Endrin aldehyde | Endrin ketone | g-BHC (Lindane) | Heptachlor | Methoxychlor | Organochlorine pesticides EPAVic | Other organochlorine pesticides EPAVic | Endosulfan sulphate | Heptachlor epoxide | Hexachlorobenzene | Toxaphene | DDT+DDE+DDD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| **EQL** | | | | | 1 | 1 | 1 | 0.2 | 1 | 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 5 | 0.2 |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | 10 | | | 60 | | | 2000 | 10 | | | 10 | | | 2000 | 30 | 1000 | | | | | | 50 | 30 |
| Field ID | Date | Sample Depth (m bgs | Lab Report Number | Matrix Type | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1C1_230831 | 31/08/2023 | 0-0.1 | 1024449 | Soil | <1 | <1 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | <5 | <1 | <1 | <1 | <5 | <1 |
| 1C2_230831 | 31/08/2023 | 0-0.1 | 1024449 | Soil | <1 | <1 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | <5 | <1 | <1 | <1 | <5 | <1 |

## C.6 Chemical Results - Arsenic TCLP and ASLP Results

| | µg/L |
|---|---|
| EQL | 10 |

| Field ID | Date | Sample Depth (m bgs) | Lab Report Number | Matrix Type | Leach Test | |
|---|---|---|---|---|---|---|
| HSA02_TS_230920 | 20 Sep 2023 | 0-0.1 | 1037505 | Soil | ASLP | 1,300 |
| HSA02_TS_230920 | 20 Sep 2023 | 0-0.1 | 1037505 | Soil | TCLP | 2,500 |
| HSA03_TS_230920 | 20 Sep 2023 | 0-0.1 | 1037505 | Soil | ASLP | 530 |
| HSA03_TS_230920 | 20 Sep 2023 | 0-0.1 | 1037505 | Soil | TCLP | 980 |

## C.7.1 Chemical Results - Previous Investigations

| SAMPLE ID | Sample Depth (m bgs) | Anthropogenic Materials | Sampled_Date | Asbestos | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | Polyaromatic Hyd | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Asbestos (ID) (ND - not detected) | ACM (w/w) | Asbestos Fines (w/w) | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endrin aldehyde | Endrin ketone | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Total OCP | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(b+j)fluoranthene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(g,h,i)perylene |
| Units | | | - | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | | | - | - | | - | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 1 | 0.1 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| EIL - Res/Open Space | | | | - | | - | | | | | | | | | 180 | | | | | | | | | | | | | | | | | | | | | | | | | | 0.7 | |
| HIL-A Residential | | | | - | 0.01% | 0.001% | | | | 6 | | 50 | | | | 240 | | | | 270 | | | 10 | | 6 | | 10 | 300 | 20 | | 3 | 3 | 3 | | | | | | | | |
| SS01 | 0-0.1 | ACM | 16/07/2013 | Chrysotile | | 0.007% (*) | 1.3 | <0.05 | <0.05 | <0.12 | <0.05 | 0.9 | <0.05 | 1.7 | 3.7 | 6.7 | 0.07 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | 7.67 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| SS02 | 0-0.1 | ACM | 16/07/2013 | Chrysotile | | 0.022% (*) | <0.05 | <0.05 | <0.05 | <0.25 | <0.05 | 20 | <0.05 | <0.05 | 0.12 | <0.22 | 0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.26 | <0.05 | <0.05 | <0.1 | 20.58 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| SS03 | 0-0.1 | | 16/07/2013 | ND | | ND | 0.09 | <0.05 | 0.11 | 1.81 | <0.05 | 0.3 | <0.05 | <0.05 | 0.13 | <0.27 | 1.7 | <0.05 | 0.07 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | 2.4 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| SS04 | 0-0.1 | | 16/07/2013 | ND | | ND | <0.05 | <0.05 | <0.05 | 1.15 | <0.05 | 8.2 | <0.05 | <0.05 | <0.05 | <0.15 | 1.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.24 | <0.05 | <0.05 | <0.1 | 9.54 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| SA01/A01 | 0-0.1 | ACM | 25/09/2013 | Chrysotile | | 0.0005% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA02/A02 | 0-0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA03/A03 | 0-0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA04/A04 | 0-0.1 | Slag, Brick | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA05/A05 | 0-0.1 | Slag | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0-0.1 | Slag | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0.3-0.4 | Slag | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA07/A07 | 0-0.1 | | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA08/A08 | 0-0.1 | Slag, Concrete, Wood | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA09/A09 | 0-0.1 | | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA10/A10 | 0-0.1 | Slag | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA11/A11 | 0-0.1 | | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA13/A13 | 0-0.1 | | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Main Hall (under building) | Grab sample | ACM | 25/09/2013 | | 0.0149% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accomodation Building (under building) | Grab sample | ACM | 25/09/2013 | | 0.0303% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unsealed External Areas | 0-0.01 | | 25/09/2013 | | 0.0084% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A01, A04, A10 | 0.15 | | 25/09/2013 | | 0.0090% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A06, A10 | 0.15 | | 25/09/2013 | | 0.0038% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA01 | 0-0.1 | | 25/09/2013 | | | | 0.27 | - | 0.07 | 0.21 | < 0.05 | 31 | < 0.05 | 0.08 | 1.1 | 1.45 | 0.14 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.13 | < 0.05 | < 0.05 | < 0.05 | < 1 | 32.79 | - | - | - | - | - | - | - | - | - | - |
| HA02 | 0-0.1 | | 25/09/2013 | | | | 0.23 | - | < 0.05 | <0.1 | < 0.05 | 51 | < 0.05 | 0.09 | 0.73 | 1.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.08 | 0.23 | < 0.05 | < 0.05 | < 1 | 52.36 | - | - | - | - | - | - | - | - | - | - |
| HA03 | 0-0.1 | | 25/09/2013 | | | | 0.57 | - | < 0.05 | <0.11 | < 0.05 | 140 | < 0.05 | 0.18 | 1.6 | 2.35 | 0.06 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.14 | 0.51 | < 0.05 | < 0.05 | < 1 | 143.06 | - | - | - | - | - | - | - | - | - | - |
| HA04 | 0-0.1 | | 25/09/2013 | | | | < 0.05 | - | < 0.05 | <0.1 | < 0.05 | 4.7 | < 0.05 | < 0.05 | 0.41 | <0.51 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.07 | < 0.05 | < 0.05 | < 1 | 5.18 | - | - | - | - | - | - | - | - | - | - |
| HA05 | 0-0.1 | | 25/09/2013 | | | | < 0.05 | - | < 0.05 | <0.1 | < 0.05 | < 0.1 | < 0.05 | < 0.05 | 0.12 | <0.22 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 0.12 | - | - | - | - | - | - | - | - | - | - |
| QC01 (DUP HA05) | 0-0.1 | | 26/09/2013 | | | | < 0.05 | - | < 0.05 | <0.1 | < 0.05 | < 0.1 | < 0.05 | < 0.05 | 0.06 | <0.22 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 0.06 | | | | | | | | | | |
| QC01A (TRIP HA05) | 0-0.1 | | 26/09/2013 | | | | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.3 | <0.1 | <0.1 | | <0.1 | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | | <0.1 | | | | | | | | | | |
| HA06/SA11 | 0-0.1 | | 25/09/2013 | ND | | | 0.49 | - | < 0.05 | <0.87 | < 0.05 | < 0.1 | < 0.05 | 0.27 | 4.2 | 4.96 | 0.82 | < 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 5.83 | - | - | - | - | - | - | - | - | - | - |
| HA07/SA12 | 0-0.1 | | 25/09/2013 | | | | 0.05 | - | 0.26 | 28.26 | < 0.05 | 0.3 | < 0.05 | < 0.05 | 0.26 | <0.36 | 28 | < 0.05 | 0.96 | < 0.05 | < 0.05 | < 0.05 | 0.7 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 30.53 | - | - | - | - | - | - | - | - | - | - |
| HA08/SA13 | 0-0.1 | | 25/09/2013 | ND | | | < 0.05 | - | < 0.05 | <0.13 | < 0.05 | < 0.1 | < 0.05 | < 0.05 | 0.13 | <0.23 | 0.08 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 0.21 | - | - | - | - | - | - | - | - | - | - |
| HA09 | 0-0.2 | | 25/09/2013 | | | | 0.07 | - | 0.06 | 55.06 | < 0.05 | 0.3 | < 0.05 | < 0.05 | 0.22 | <0.34 | 55 | < 0.05 | 0.58 | < 0.05 | < 0.05 | < 0.05 | 0.93 | < 0.05 | < 0.05 | 0.06 | < 0.05 | < 0.05 | < 1 | 57.22 | - | - | - | - | - | - | - | - | - | - |
| HA10 | 0-0.2 | Slag, Coal | 25/09/2013 | | | | < 0.5 | - | 86 | 506 | < 0.05 | 5.4 | < 0.05 | < 0.05 | < 0.05 | <0.55 | 420 | < 0.05 | 8.5 | < 0.05 | < 0.05 | < 0.05 | 6.5 | < 0.05 | 0.87 | 0.11 | < 0.05 | < 0.05 | < 1 | 527.38 | - | - | - | - | - | - | - | - | - | - |
| HA11 | 0-0.1 | | 25/09/2013 | | | | 0.13 | - | < 0.05 | <0.44 | < 0.05 | 42 | < 0.05 | 0.06 | 0.16 | 0.35 | 0.39 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.2 | 1 | < 0.05 | < 0.05 | < 1 | 43.94 | - | - | - | - | - | - | - | - | - | - |
| 1-0.0 | 0-0.1 | | 1/10/2019 | | | | 0.82 | <0.05 | <0.05 | <0.05 | <0.05 | 0.3 | <0.05 | 0.13 | 0.9 | 1.85 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 2.15 | - | - | - | - | - | - | - | - | - | - |
| 1-0.3 | 0.3 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | |
| 2-0.0 | 0-0.1 | | 1/10/2019 | | | | 0.09 | <0.05 | <0.05 | 0.06 | <0.05 | 5.2 | <0.05 | <0.05 | 0.33 | 0.42 | 0.06 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 5.68 | - | - | - | - | - | - | - | - | - | - |
| QC01 (DUP 2-0.0) | 0-0.1 | | 1/10/2019 | | | | 0.11 | <0.05 | <0.05 | <0.05 | <0.05 | 2.1 | <0.05 | 0.36 | 0.06 | 0.53 | <0.05 | 0.05 | <0.05 | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 2.73 | | | | | | | | | | |
| QC02 (TRIP 2-0.0) | 0-0.1 | | 1/10/2019 | | | | 0.14 | <0.05 | <0.05 | <0.05 | <0.05 | 5.84 | <0.05 | <0.05 | 0.9 | 1.04 | <0.05 | <0.05 | <0.05 | <1.02 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.06 | <0.05 | <0.2 | - | 6.94 | | | | | | | | | | |
| 2-0.3 | 0.3 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.2 | | | | | | | | | | |
| QC03 (DUP 2-0.3) | 0.3 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | |

## C.7.1 Chemical Results - Previous Investigations

| SAMPLE ID | Sample Depth (m bgs) | Anthropogenic Materials | Sampled_Date | Asbestos | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | Polyaromatic Hyd | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Asbestos (ID) (ND - not detected) | ACM (w/w) | Asbestos Fines (w/w) | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endrin aldehyde | Endrin ketone | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Total OCP | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(b+j)fluoranthene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(g,h,i)perylene |
| Units | | | - | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | | | - | - | | - | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 1 | 0.1 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| EIL - Res/Open Space | | | | - | | - | | | | | | | | | 180 | | | | | | | | | | | | | | | | | | | | | | | | 0.7 | |
| HIL-A Residential | | | | - | 0.01% | 0.001% | | | | 6 | | 50 | | | | 240 | | | | 270 | | | 10 | | 6 | | 10 | 300 | 20 | | 3 | 3 | 3 | | | | | | | |
| QC04 (TRIP 2-0.3) | 0.3 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.23 | <0.05 | <0.05 | <0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | 0.23 | | | | | | | | | | |
| 3-0.0 | 0-0.1 | | 1/10/2019 | | | | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.9 | <0.05 | 0.27 | 0.59 | 0.91 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 2.81 | - | - | - | - | - | - | - | - | - | - |
| 3-0.35 | 0.35 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | |
| 4-0.0 | 0-0.1 | | 1/10/2019 | | | | 0.31 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | 4.1 | 4.41 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 4.41 | - | - | - | - | - | - | - | - | - | - |
| 4-0.35 | 0.35 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | |
| 5-0.0 | 0-0.1 | | 1/10/2019 | | | | 1.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | 1.5 | 5.4 | 8.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 8.2 | - | - | - | - | - | - | - | - | - | - |
| 5-0.35 | 0.35 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | |
| 6-0.0 | 0-0.1 | | 1/10/2019 | | | | 0.17 | <0.05 | <0.05 | 0.08 | <0.05 | 5.5 | <0.05 | 0.06 | <0.05 | 0.23 | 0.08 | 0.07 | <0.05 | <0.05 | <0.05 | <0.05 | 0.05 | <0.05 | 0.26 | 0.89 | <0.05 | <0.05 | <1 | 7.08 | - | - | - | - | - | - | - | - | - | - |
| 6-0.45 | 0.45 | Slag | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.5 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.26 | <0.05 | <0.05 | <1 | 0.76 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 6P-0.0 (HA02) | 0-0.1 | | 1/10/2019 | | | | 0.19 | <0.05 | <0.05 | <0.05 | <0.05 | 4.2 | <0.05 | 0.06 | 0.33 | 0.58 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 4.78 | - | - | - | - | - | - | - | - | - | - |
| 6P-0.3 (HA02) | 0.3 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.3 | | | | | | | | | | |
| 7-0.0 | 0-0.1 | | 1/10/2019 | | | | 0.26 | <0.05 | <0.05 | <0.05 | <0.05 | 16 | <0.05 | 0.08 | <0.05 | 0.34 | <0.05 | 0.24 | <0.05 | <0.05 | <0.05 | <0.05 | 0.12 | <0.05 | 1 | 3.4 | <0.05 | <0.05 | <1 | 21.1 | - | - | - | - | - | - | - | - | - | - |
| 7-0.45 | 0.45 | Slag | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.4 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.18 | <0.05 | <0.05 | <1 | 0.58 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 7P-0.0 (HA03) | 0-0.1 | | 1/10/2019 | | | | 0.15 | <0.05 | <0.05 | <0.05 | <0.05 | 2.3 | <0.05 | 0.05 | 0.17 | 0.37 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.09 | <0.05 | <0.05 | <1 | 2.76 | - | - | - | - | - | - | - | - | - | - |
| 7P-0.25 (HA03) | 0.25 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.4 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.4 | | | | | | | | | | |
| 8-0.0 | 0-0.1 | | 1/10/2019 | | | | 0.1 | <0.05 | 0.56 | 23.56 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.1 | 23 | <0.05 | 0.12 | <0.05 | <0.05 | <0.05 | 0.23 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 24.01 | - | - | - | - | - | - | - | - | - | - |
| 8-0.42 | 0.42 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 1.3 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 1.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 1.3 | | | | | | | | | | |
| 9-0.0 | 0-0.1 | | 1/10/2019 | | | | 0.2 | <0.05 | 0.08 | 60.08 | <0.05 | 0.2 | <0.05 | <0.05 | <0.05 | 0.2 | 60 | <0.05 | 0.36 | <0.05 | <0.05 | <0.05 | 0.83 | <0.05 | <0.05 | 0.06 | <0.05 | <0.05 | <1 | 61.73 | - | - | - | - | - | - | - | - | - | - |
| 9-0.42 | 0.42 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 0.36 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.36 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.36 | | | | | | | | | | |
| 9P-0.0 (HA09) | 0-0.1 | | 1/10/2019 | | | | 0.1 | <0.05 | <0.05 | 18 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.1 | 18 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 18.26 | - | - | - | - | - | - | - | - | - | - |
| 9P-0.45 (HA09) | 0.45 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 0.13 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.13 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.13 | | | | | | | | | | |
| 10-0.0 | 0-0.1 | | 1/10/2019 | | | | 0.11 | <0.05 | 0.1 | 28.1 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.11 | 28 | <0.05 | 0.13 | <0.05 | <0.05 | <0.05 | 0.21 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 28.55 | - | - | - | - | - | - | - | - | - | - |
| 10-0.45 | 0.45 | | 1/10/2019 | | | | 0.14 | <0.05 | 0.21 | 9.51 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.14 | 9.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.06 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 9.71 | | | | | | | | | | |
| 11-0.0 | 0-0.1 | | 1/10/2019 | | | | 0.34 | <0.05 | 0.06 | 36.06 | <0.05 | 0.1 | <0.05 | 0.18 | <0.05 | 0.52 | 36 | <0.05 | 0.31 | <0.05 | <0.05 | <0.05 | 0.73 | <0.05 | <0.05 | 0.18 | <0.05 | <0.05 | <1 | 37.9 | - | - | - | - | - | - | - | - | - | - |
| 11-0.45 | 0.45 | | 1/10/2019 | | | | 0.22 | <0.05 | <0.05 | 14 | <0.05 | <0.1 | <0.05 | 0.15 | <0.05 | 0.37 | 14 | <0.05 | 0.05 | <0.05 | <0.05 | <0.05 | 0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 14.52 | | | | | | | | | | |
| 12-0.0 | 0-0.1 | | 1/10/2019 | | | | 0.15 | <0.05 | 0.81 | 4.31 | <0.05 | <0.1 | <0.05 | 0.15 | 0.21 | 0.51 | 3.5 | <0.05 | 0.28 | <0.05 | <0.05 | <0.05 | 0.08 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 5.18 | - | - | - | - | - | - | - | - | - | - |
| 12-0.25 | 0.25 | | 1/10/2019 | | | | <0.05 | <0.05 | 0.11 | 0.47 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.36 | <0.05 | <0.05 | <0.05 | — | — | — | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.47 | | | | | | | | | | |
| 13P-0.0 (HA07) | 0-0.1 | | 1/10/2019 | | | | 0.13 | <0.05 | <0.05 | 7.5 | <0.05 | <0.1 | <0.05 | 0.11 | 0.08 | 0.32 | 7.5 | <0.05 | 0.17 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 7.99 | - | - | - | - | - | - | - | - | - | - |
| 13P-0.2 (HA07) | 0.2 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 10 | <0.05 | <0.1 | <0.05 | <0.05 | 0.05 | 0.05 | 10 | <0.05 | 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 10.21 | - | - | - | - | - | - | - | - | - | - |
| 14-0.0 | 0-0.1 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 0.07 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.07 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.07 | - | - | - | - | - | - | - | - | - | - |
| 14-0.45 | 0.45 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | |
| 14P-0.0 (HA10) | 0-0.1 | | 1/10/2019 | | | | 0.12 | <0.05 | 1.1 | 61.1 | <0.05 | 0.1 | <0.05 | <0.05 | <0.05 | 0.12 | 60 | <0.05 | 0.58 | <0.05 | <0.05 | <0.05 | 0.62 | <0.05 | <0.05 | 0.09 | <0.05 | <0.05 | <1 | 62.61 | - | - | - | - | - | - | - | - | - | - |
| QC07 (DUP 14P-0.0 ) | 0-0.1 | | 1/10/2019 | | | | 0.24 | <0.05 | 1.9 | 75.9 | <0.05 | 0.3 | <0.05 | 0.05 | <0.05 | 0.29 | 74 | <0.05 | 1.2 | <0.05 | <0.05 | <0.05 | 1.2 | <0.05 | 0.06 | 0.22 | <0.05 | <0.05 | <1 | 79.17 | | | | | | | | | | |
| QC08 (TRIP 14P-0.0 ) | 0-0.1 | | 1/10/2019 | | | | <0.05 | <0.05 | 2.32 | 109 | <0.05 | 0.37 | <0.05 | <0.05 | <0.2 | <0.05 | 107 | <0.05 | 1.4 | <0.05 | <0.05 | <0.05 | 1.47 | <0.05 | 0.16 | 0.22 | <0.05 | <0.2 | - | 112.94 | | | | | | | | | | |
| 14P-0.42 (HA10) | 0.42 | | 1/10/2019 | | | | <0.05 | <0.05 | 0.06 | 3.86 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 3.8 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 3.86 | | | | | | | | | | |
| QC09 (DUP 14P-0.42) | 0-0.1 | | 1/10/2019 | | | | <0.05 | <0.05 | 0.06 | 5.06 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 5 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 5.06 | | | | | | | | | | |
| QC10 (TRIP 14P-0.42) | 0-0.1 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 3.08 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 | 3.08 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | 3.08 | | | | | | | | | | |
| 15-0.0 | 0-0.1 | | 1/10/2019 | | | | <0.05 | <0.05 | 0.09 | 8.29 | <0.05 | 7.4 | <0.05 | <0.05 | <0.05 | <0.05 | 8.2 | 0.13 | 0.09 | 0.26 | <0.05 | <0.05 | 0.09 | <0.05 | 0.19 | 0.38 | <0.05 | <0.05 | <1 | 16.83 | - | - | - | - | - | - | - | - | - | - |
| 16-0.0 | 0-0.1 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.11 | <0.05 | <0.05 | <1 | 1.41 | - | - | - | - | - | - | - | - | - | - |
| 16-0.45 | 0.45 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | |
| 17-0.0 | 0-0.1 | | 1/10/2019 | | | | 0.18 | <0.05 | <0.05 | 0.62 | <0.05 | <0.1 | <0.05 | <0.05 | 0.18 | 0.36 | 0.62 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.98 | - | - | - | - | - | - | - | - | - | - |
| 17-0.25 | 0.25 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | |

**C.7.1 Chemical Results - Previous Investigations**

| SAMPLE ID | Sample Depth (m bgs) | Anthropogenic Materials | Sampled_Date | Asbestos | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | Polyaromatic Hyd | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Asbestos (ID) (ND - not detected) | ACM (w/w) | Asbestos Fines (w/w) | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endrin aldehyde | Endrin ketone | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Total OCP | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(b+j)fluoranthene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(g,h,i)perylene |
| Units | | | - | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | | | - | - | | - | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 1 | 0.1 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| EIL - Res/Open Space | | | | - | | - | | | | | | | | | 180 | | | | | | | | | | | | | | | | | | | | | | | | 0.7 | |
| HIL-A Residential | | | | - | 0.01% | 0.001% | | | | 6 | | 50 | | | | 240 | | | | 270 | | | 10 | | 6 | | 10 | 300 | 20 | | 3 | 3 | 3 | | | | | | | |
| 18-0.0 | 0-0.1 | | 1/10/2019 | | | | 2.2 | <0.05 | <0.05 | 0.61 | <0.05 | <0.1 | <0.05 | 0.35 | 3.8 | 6.35 | 0.61 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 6.96 | - | - | - | - | - | - | - | - | - | - |
| 18-0.2 | 0.2 | | 1/10/2019 | | | | 0.11 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | 0.07 | 0.18 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.18 | - | - | - | - | - | - | - | - | - | - |
| 32-0.0 | 0-0.1 | | 1/10/2019 | | | | 1.4 | <0.05 | <0.05 | 0.3 | <0.05 | 0.1 | <0.05 | 2.1 | 23 | 26.5 | 0.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 26.9 | - | - | - | - | - | - | - | - | - | - |
| 34-0.0 | 0-0.1 | | 1/10/2019 | | | | 1 | <0.05 | 0.49 | 17.49 | <0.05 | <0.1 | <0.05 | 0.15 | 0.51 | 1.66 | 17 | <0.05 | 0.22 | <0.05 | <0.05 | <0.05 | 0.18 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 19.55 | - | - | - | - | - | - | - | - | - | - |
| 36-0.0 | 0-0.1 | | 1/10/2019 | | | | 0.07 | <0.05 | <0.05 | 20 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.07 | 20 | <0.05 | 0.12 | <0.05 | <0.05 | <0.05 | 0.11 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 20.3 | - | - | - | - | - | - | - | - | - | - |
| BH01_0.1 | 0.1 | | 3/09/2021 | | | | 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.16 | | | | | | | | | | |
| BH02_0.1 | 0.1 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| BH03_0.1 | 0.1 | | 3/09/2021 | | | | 0.39 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | 0.06 | 0.31 | 0.76 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.76 | | | | | | | | | | |
| BH04_0.1 | 0.1 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| BH05_0.1 | 0.1 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| BH06_0.1 | 0.1 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| BH06_0.3 | 0.3 | Ash, slag fragments | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| BH06_0.5 | 0.5 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| BH07_0.1 | 0.1 | | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| BH07_0.3 | 0.3 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| BH08_0.1 | 0.1 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| BH08_0.3 | 0.3 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| BH12_0.1 | 0.1 | | 3/09/2021 | ND | | | 0.47 | <0.05 | <0.05 | 0.21 | <0.05 | 0.2 | <0.05 | 0.34 | 18 | 18.81 | 0.21 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 19.22 | | | | | | | | | | |
| BH13_0.1 | 0.1 | | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | 0.1 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.1 | | | | | | | | | | |
| BH14_0.1 | 0.1 | | 3/09/2021 | ND | | | <0.05 | <0.05 | 0.15 | 9.15 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 9 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 9.15 | | | | | | | | | | |
| BH14_0.3 | 0.3 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | 0.91 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.91 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.91 | | | | | | | | | | |
| BH14_0.5 | 0.5 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | 0.24 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.24 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.24 | | | | | | | | | | |
| BH15_0.1 | 0.1 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | 0.05 | 0.05 | <0.05 | <0.05 | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.1 | | | | | | | | | | |
| BH15_0.3 | 0.3 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| BH15_0.5 | 0.5 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| BH16_0.1 | 0.1 | | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| BH16_0.3 | 0.3 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| BH16_0.5 | 0.5 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| BH17_0.1 | 0.1 | | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| BH17_0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| QC09_210903 (DUP BH17_0.3) | 0.3 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| QC10_210903 (TRIP BH17_0.3) | 0.3 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | | <0.1 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| BH17_0.5 | 0.5 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| BH18_0.1 | 0.1 | | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| BH18_0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| BH18_0.5 | 0.5 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| BH19_0.1 | 0.1 | | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| BH19_0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| QC01_210903 (DUP BH19_0.3) | 0.3 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| QC02_210903 (TRIP BH19_0.3) | 0.3 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | | <0.1 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| BH19_0.5 | 0.5 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| BH20_0.1 | 0.1 | | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |

**C.7.1 Chemical Results - Previous Investigations**

| SAMPLE ID | Sample Depth (m bgs) | Anthropogenic Materials | Sampled_Date | Asbestos | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | Polyaromatic Hyd | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Asbestos (ID) (ND - not detected) | ACM (w/w) | Asbestos Fines (w/w) | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endrin aldehyde | Endrin ketone | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Total OCP | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(b+j)fluoranthene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(g,h,i)perylene |
| Units | | | - | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | | | - | - | | - | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 1 | 0.1 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| EIL - Res/Open Space | | | | - | | - | | | | | | | | | 180 | | | | | | | | | | | | | | | | | | | | | | | | 0.7 | |
| HIL-A Residential | | | | - | 0.01% | 0.001% | | | | 6 | | 50 | | | | 240 | | | | 270 | | | 10 | | 6 | | 10 | 300 | 20 | | 3 | 3 | 3 | | | | | | | |
| BH20_0.3 | 0.3 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| BH20_0.5 | 0.5 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| BH21_0.1 | 0.1 | | 3/09/2021 | | | | <0.05 | <0.05 | 98 | 103.2 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 5.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 103.2 | | | | | | | | | | |
| BH21_0.3 | 0.3 | | 3/09/2021 | | | | 0.07 | <0.05 | 0.98 | 1.41 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.07 | 0.43 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 1.48 | | | | | | | | | | |
| BH21_0.5 | 0.5 | | 3/09/2021 | | | | <0.05 | <0.05 | 0.12 | 0.12 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.12 | | | | | | | | | | |
| MW01 - 0.1 | 0.1 | | 17/11/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| MW01 - 0.25 | 0.25 | | 17/11/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| MW01 - 0.50 | 0.5 | | 17/11/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| MW01_0.75 | 0.75 | | 17/11/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW01_1.0 | 1 | | 17/11/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SLAG-1 | 0-0.1 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| SLAG-2 | 0-0.1 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| BH01_CONCRETE | 0-0.2 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| BH03_CONCRETE | 0-0.2 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| BH05_CONCRETE | 0-0.2 | | 3/09/2021 | | | | 1.6 | <0.05 | <0.05 | 0.13 | <0.05 | <0.1 | <0.05 | 0.28 | 0.33 | 2.21 | 0.13 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 2.34 | | | | | | | | | | |
| BH06_CONCRETE | 0-0.2 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| BH07_CONCRETE | 0-0.2 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| BH08_CONCRETE | 0-0.2 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| BH09_CONCRETE | 0-0.2 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| BH10_CONCRETE | 0-0.2 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| BH11_CONCRETE | 0-0.2 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | |
| BH21_CONCRETE | 0-0.2 | | 3/09/2021 | | | | <0.05 | <0.05 | 0.38 | 0.73 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.35 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.73 | | | | | | | | | | |

**C.7.1 Chemical Results - Previous Investigations**

| SAMPLE ID | Sample Depth (m bgs) | Anthropogenic Materials | Sampled_Date | rocarbons (PAH) | | | | | | | | | | Metals | | | | | | | | | TRH | | | | BTEX | | | | | | | Other | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | PAHs (Sum of total) | Phenanthrene | Pyrene | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc | Chromium (hexavalent) | C6-C10 | C10-C16 | C16-C34 | C34-C40 | Benzene | Toluene | Ethyl benzene | Xylene (m & p) | Xylene (o) | Xylenes | Total BTEX | CEC | pH | | |
| Units | | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | | | | |
| EQL | | | - | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 0.4 | 5 | 5 | 5 | 0.1 | 5 | 5 | 1 | | | | | | | | | | | | | | | |
| EIL - Res/Open Space | | | | | | | | | | 170 | | | | 100 | | 245 | 196 | 1112 | | 287 | 420 | | 180 | 120 | 300 | 2800 | | | | | | | | | | | | |
| HIL-A Residential | | | | | | | | | | | 300 | | | 100 | 20 | 100 | 6000 | 300 | 10 | 400 | 7400 | 100 | 45 | 110 | 2500 | 10000 | | | | | | | | | | | | |
| SS01 | 0-0.1 | ACM | 16/07/2013 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 32 | 0.7 | 54 | 21 | 39 | <0.1 | 35 | 760 | | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | | | | | |
| SS02 | 0-0.1 | ACM | 16/07/2013 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 10 | 1.4 | 12 | 27 | 100 | <0.1 | 8.4 | 2000 | | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | | | | | |
| SS03 | 0-0.1 | | 16/07/2013 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 16 | 0.4 | 42 | 20 | 75 | <0.1 | 18 | 190 | | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | | | | | |
| SS04 | 0-0.1 | | 16/07/2013 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 10 | 0.6 | 22 | 33 | 72 | <0.1 | 11 | 250 | | <20 | <50 | 260 | <100 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | | | | | |
| SA01/A01 | 0-0.1 | ACM | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA02/A02 | 0-0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA03/A03 | 0-0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA04/A04 | 0-0.1 | Slag, Brick | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA05/A05 | 0-0.1 | Slag | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0-0.1 | Slag | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0.3-0.4 | Slag | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA07/A07 | 0-0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA08/A08 | 0-0.1 | Slag, Concrete, Wood | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA09/A09 | 0-0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA10/A10 | 0-0.1 | Slag | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA11/A11 | 0-0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA13/A13 | 0-0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Main Hall (under building) | Grab sample | ACM | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accomodation Building (under building) | Grab sample | ACM | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unsealed External Areas | 0-0.01 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A01, A04, A10 | 0.15 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A06, A10 | 0.15 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA01 | 0-0.1 | | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | 9.3 | < 0.4 | 39 | 8.1 | 7.3 | < 0.1 | 20 | 64 | | | | | | | | | | | | | | | | | |
| HA02 | 0-0.1 | | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | 14 | < 0.4 | 44 | 6.4 | 15 | < 0.1 | 24 | 44 | | | | | | | | | | | | | | | | | |
| HA03 | 0-0.1 | | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | 20 | < 0.4 | 69 | 12 | 27 | < 0.1 | 25 | 92 | | | | | | | | | | | | | | | | | |
| HA04 | 0-0.1 | | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | 14 | < 0.4 | 54 | 11 | 14 | < 0.1 | 16 | 26 | | | | | | | | | | | | | | | | | |
| HA05 | 0-0.1 | | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | 17 | < 0.4 | 66 | 9.2 | 10 | < 0.1 | 19 | 45 | | | | | | | | | | | | | | | | | |
| QC01 (DUP HA05) | 0-0.1 | | 26/09/2013 | | | | | | | | | | | 21 | < 0.4 | 73 | 10 | 16 | < 0.1 | 20 | 54 | | | | | | | | | | | | | | | | | |
| QC01A (TRIP HA05) | 0-0.1 | | 26/09/2013 | | | | | | | | | | | 11 | < 0.4 | 90 | 12 | 20 | < 0.1 | 27 | 74 | | | | | | | | | | | | | | | | | |
| HA06/SA11 | 0-0.1 | | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | 22 | < 0.4 | 88 | 9.3 | 13 | < 0.1 | 19 | 41 | | | | | | | | | | | | | | | | | |
| HA07/SA12 | 0-0.1 | | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | 15 | < 0.4 | 43 | 13 | 63 | < 0.1 | 15 | 140 | | | | | | | | | | | | | 30 | 5.8 | | |
| HA08/SA13 | 0-0.1 | | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | 10 | < 0.4 | 39 | 14 | 50 | < 0.1 | 11 | 72 | | | | | | | | | | | | | | | | | |
| HA09 | 0-0.2 | | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | 10 | < 0.4 | 25 | 24 | 120 | 0.1 | 8.8 | 380 | | | | | | | | | | | | | | | | | |
| HA10 | 0-0.2 | Slag, Coal | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | 19 | < 0.4 | 22 | 19 | 120 | < 0.1 | 8.7 | 330 | | | | | | | | | | | | | | | | | |
| HA11 | 0-0.1 | | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | 23 | < 0.4 | 50 | 15 | 140 | < 0.1 | 13 | 450 | | | | | | | | | | | | | 25 | 6.3 | | |
| 1-0.0 | 0-0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | |
| 1-0.3 | 0.3 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-0.0 | 0-0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | |
| QC01 (DUP 2-0.0) | 0-0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC02 (TRIP 2-0.0) | 0-0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-0.3 | 0.3 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC03 (DUP 2-0.3) | 0.3 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

## C.7.1 Chemical Results - Previous Investigations

| SAMPLE ID | Sample Depth (m bgs) | Anthropogenic Materials | Sampled_Date | rocarbons (PAH) | | | | | | | | | | Metals | | | | | | | | | TRH | | | | BTEX | | | | | | | Other | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | PAHs (Sum of total) | Phenanthrene | Pyrene | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc | Chromium (hexavalent) | C6-C10 | C10-C16 | C16-C34 | C34-C40 | Benzene | Toluene | Ethyl benzene | Xylene (m & p) | Xylene (o) | Xylenes | Total BTEX | CEC | pH | | |
| Units | | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | | | | |
| EQL | | | - | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 0.4 | 5 | 5 | 5 | 0.1 | 5 | 5 | 1 | | | | | | | | | | | | | | | |
| EIL - Res/Open Space | | | | | | | | | | 170 | | | | 100 | | 245 | 196 | 1112 | | 287 | 420 | | 180 | 120 | 300 | 2800 | | | | | | | | | | | | |
| HIL-A Residential | | | | | | | | | | | 300 | | | 100 | 20 | 100 | 6000 | 300 | 10 | 400 | 7400 | 100 | 45 | 110 | 2500 | 10000 | | | | | | | | | | | | |
| QC04 (TRIP 2-0.3) | 0.3 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3-0.0 | 0-0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | |
| 3-0.35 | 0.35 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4-0.0 | 0-0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | |
| 4-0.35 | 0.35 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5-0.0 | 0-0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | |
| 5-0.35 | 0.35 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6-0.0 | 0-0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | |
| 6-0.45 | 0.45 | Slag | 1/10/2019 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 2.1 | <0.4 | <5 | 11 | 32 | <0.1 | 5.8 | 72 | | | | | | | | | | | | | | | | | |
| 6P-0.0 (HA02) | 0-0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | |
| 6P-0.3 (HA02) | 0.3 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7-0.0 | 0-0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | |
| 7-0.45 | 0.45 | Slag | 1/10/2019 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 2.6 | <0.4 | <5 | 12 | 19 | <0.1 | 5.8 | 51 | | | | | | | | | | | | | | | | | |
| 7P-0.0 (HA03) | 0-0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | |
| 7P-0.25 (HA03) | 0.25 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8-0.0 | 0 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | |
| 8-0.42 | 0.42 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9-0.0 | 0-0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | |
| 9-0.42 | 0.42 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9P-0.0 (HA09) | 0-0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | |
| 9P-0.45 (HA09) | 0.45 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10-0.0 | 0-0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | |
| 10-0.45 | 0.45 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11-0.0 | 0-0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | |
| 11-0.45 | 0.45 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12-0.0 | 0-0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | |
| 12-0.25 | 0.25 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13P-0.0 (HA07) | 0-0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | |
| 13P-0.2 (HA07) | 0.2 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | |
| 14-0.0 | 0-0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | |
| 14-0.45 | 0.45 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14P-0.0 (HA10) | 0-0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | |
| QC07 (DUP 14P-0.0 ) | 0-0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC08 (TRIP 14P-0.0 ) | 0-0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14P-0.42 (HA10) | 0.42 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC09 (DUP 14P-0.42) | 0-0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC10 (TRIP 14P-0.42) | 0-0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15-0.0 | 0-0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | |
| 16-0.0 | 0-0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | |
| 16-0.45 | 0.45 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17-0.0 | 0-0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | |
| 17-0.25 | 0.25 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**C.7.1 Chemical Results - Previous Investigations**

| SAMPLE ID | Sample Depth (m bgs) | Anthropogenic Materials | Sampled_Date | rocarbons (PAH) | | | | | | | | | | Metals | | | | | | | | | TRH | | | | BTEX | | | | | | | Other | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | PAHs (Sum of total) | Phenanthrene | Pyrene | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc | Chromium (hexavalent) | C6-C10 | C10-C16 | C16-C34 | C34-C40 | Benzene | Toluene | Ethyl benzene | Xylene (m & p) | Xylene (o) | Xylenes | Total BTEX | CEC | pH | | |
| Units | | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | | | | |
| EQL | | | - | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 0.4 | 5 | 5 | 5 | 0.1 | 5 | 5 | 1 | | | | | | | | | | | | | | | |
| EIL - Res/Open Space | | | | | | | | | | 170 | | | | 100 | | 245 | 196 | 1112 | | 287 | 420 | | 180 | 120 | 300 | 2800 | | | | | | | | | | | | |
| HIL-A Residential | | | | | | | | | | | 300 | | | 100 | 20 | 100 | 6000 | 300 | 10 | 400 | 7400 | 100 | 45 | 110 | 2500 | 10000 | | | | | | | | | | | | |
| 18-0.0 | 0-0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | |
| 18-0.2 | 0.2 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | |
| 32-0.0 | 0-0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | |
| 34-0.0 | 0-0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | |
| 36-0.0 | 0-0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | |
| BH01_0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | <2 | <0.4 | 45 | 6.1 | 5.6 | <0.1 | 22 | 22 | | | | | | | | | | | | | | | | | |
| BH02_0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | <2 | <0.4 | 37 | <5 | <5 | <0.1 | 18 | 16 | | | | | | | | | | | | | | | | | |
| BH03_0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | 6.5 | <0.4 | 70 | 6.6 | 40 | <0.1 | 22 | 29 | | | | | | | | | | | | | | | | | |
| BH04_0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | 3.4 | <0.4 | 49 | <5 | <5 | <0.1 | 9.2 | 16 | | | | | | | | | | | | | | | | | |
| BH05_0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | 12 | <0.4 | 75 | 7.1 | 5.5 | <0.1 | 14 | 19 | | | | | | | | | | | | | | | | | |
| BH06_0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | 4.6 | <0.4 | 5.6 | 6.4 | 6.6 | <0.1 | <5 | 19 | | | | | | | | | | | | | | | | | |
| BH06_0.3 | 0.3 | Ash, slag fragments | 3/09/2021 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 5.7 | <0.4 | 13 | 5.9 | 11 | <0.1 | <5 | 24 | | | | | | | | | | | | | | | | | |
| BH06_0.5 | 0.5 | | 3/09/2021 | | | | | | | | | | | 8.8 | <0.4 | 150 | 21 | <5 | <0.1 | 45 | 27 | | | | | | | | | | | | | | | | | |
| BH07_0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | 7 | <0.4 | 5.6 | 7.4 | 6.6 | <0.1 | <5 | 19 | | | | | | | | | | | | | | | | | |
| BH07_0.3 | 0.3 | | 3/09/2021 | | | | | | | | | | | 8.7 | <0.4 | 170 | 10 | 6.7 | <0.1 | 30 | 32 | | | | | | | | | | | | | | | | | |
| BH08_0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | 4.6 | <0.4 | 100 | 6.7 | <5 | <0.1 | 15 | 14 | | | | | | | | | | | | | | | | | |
| BH08_0.3 | 0.3 | | 3/09/2021 | | | | | | | | | | | 3.7 | <0.4 | 110 | 11 | <5 | <0.1 | 26 | 20 | | | | | | | | | | | | | | | | | |
| BH12_0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | 6.4 | 0.9 | 79 | 21 | 54 | <0.1 | 66 | 160 | | | | | | | | | | | | | | | | | |
| BH13_0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | 10 | 0.5 | 73 | 30 | 110 | <0.1 | 25 | 250 | | | | | | | | | | | | | | | | | |
| BH14_0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | 7.7 | <0.4 | 16 | 13 | 120 | <0.1 | 6.9 | 210 | | | | | | | | | | | | | | | | | |
| BH14_0.3 | 0.3 | | 3/09/2021 | | | | | | | | | | | 6.1 | <0.4 | 6.7 | 7.8 | 33 | <0.1 | <5 | 48 | | | | | | | | | | | | | | | | | |
| BH14_0.5 | 0.5 | | 3/09/2021 | | | | | | | | | | | 2.1 | <0.4 | 59 | 6.7 | 6.7 | <0.1 | 17 | 20 | | | | | | | | | | | | | | | | | |
| BH15_0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | 7.3 | <0.4 | 32 | 25 | 160 | <0.1 | 13 | 250 | | | | | | | | | | | | | | | | | |
| BH15_0.3 | 0.3 | | 3/09/2021 | | | | | | | | | | | 6.7 | <0.4 | 67 | 8.6 | 9.8 | <0.1 | 14 | 26 | | | | | | | | | | | | | | | | | |
| BH15_0.5 | 0.5 | | 3/09/2021 | | | | | | | | | | | 6.8 | <0.4 | 66 | 11 | <5 | <0.1 | 15 | 18 | | | | | | | | | | | | | | | | | |
| BH16_0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | 19 | <0.4 | 30 | 20 | 160 | <0.1 | 9.5 | 320 | | | | | | | | | | | | | | | | | |
| BH16_0.3 | 0.3 | | 3/09/2021 | | | | | | | | | | | 11 | <0.4 | 79 | 12 | 47 | <0.1 | 21 | 53 | | | | | | | | | | | | | | | | | |
| BH16_0.5 | 0.5 | | 3/09/2021 | | | | | | | | | | | 12 | <0.4 | 150 | 20 | 9.7 | <0.1 | 45 | 43 | | | | | | | | | | | | | | | | | |
| BH17_0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | 4.1 | <0.4 | 45 | 20 | 65 | <0.1 | 21 | 75 | | | | | | | | | | | | | | | | | |
| BH17_0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | | | | | | | | 3.1 | <0.4 | 8.9 | 23 | 75 | <0.1 | 5.1 | 130 | | | | | | | | | | | | | | | | | |
| QC09_210903 (DUP BH17_0.3) | 0.3 | Ash, slag | 3/09/2021 | | | | | | | | | | | 4 | <0.4 | 8.9 | 15 | 78 | <0.1 | <5 | 120 | | | | | | | | | | | | | | | | | |
| QC10_210903 (TRIP BH17_0.3) | 0.3 | Ash, slag | 3/09/2021 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | | <0.5 | <0.5 | <0.5 | <5 | <1 | 6 | 74 | 87 | <0.1 | 9 | 131 | | | | | | | | | | | | | | | | | |
| BH17_0.5 | 0.5 | Ash, slag | 3/09/2021 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2 | <0.4 | <5 | 16 | 8 | <0.1 | <5 | 14 | | | | | | | | | | | | | | | | | |
| BH18_0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | 5 | <0.4 | 51 | 18 | 37 | <0.1 | 25 | 79 | | | | | | | | | | | | | | | | | |
| BH18_0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | | | | | | | | <2 | <0.4 | 24 | 22 | 29 | <0.1 | 15 | 39 | | | | | | | | | | | | | | | | | |
| BH18_0.5 | 0.5 | Ash, slag | 3/09/2021 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 23 | <0.4 | 39 | 14 | 27 | <0.1 | 14 | 31 | | | | | | | | | | | | | | | | | |
| BH19_0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | 5.5 | <0.4 | 21 | 19 | 76 | <0.1 | 9.4 | 97 | | | | | | | | | | | | | | | | | |
| BH19_0.3 | 0.3 | Ash, slag | 3/09/2021 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 3.5 | <0.4 | 53 | 25 | 110 | <0.1 | 20 | 100 | | | | | | | | | | | | | | | | | |
| QC01_210903 (DUP BH19_0.3) | 0.3 | Ash, slag | 3/09/2021 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 2.6 | <0.4 | 39 | 15 | 65 | <0.1 | 9.7 | 62 | | | | | | | | | | | | | | | | | |
| QC02_210903 (TRIP BH19_0.3) | 0.3 | Ash, slag | 3/09/2021 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | | <0.5 | <0.5 | <0.5 | <5 | <1 | 16 | 14 | 86 | <0.1 | 8 | 64 | | | | | | | | | | | | | | | | | |
| BH19_0.5 | 0.5 | | 3/09/2021 | | | | | | | | | | | 2.2 | <0.4 | 73 | 7.6 | 11 | <0.1 | 14 | 21 | | | | | | | | | | | | | | | | | |
| BH20_0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | 3.3 | <0.4 | 48 | 32 | 68 | <0.1 | 9.9 | 88 | | | | | | | | | | | | | | | | | |

**C.7.1 Chemical Results - Previous Investigations**

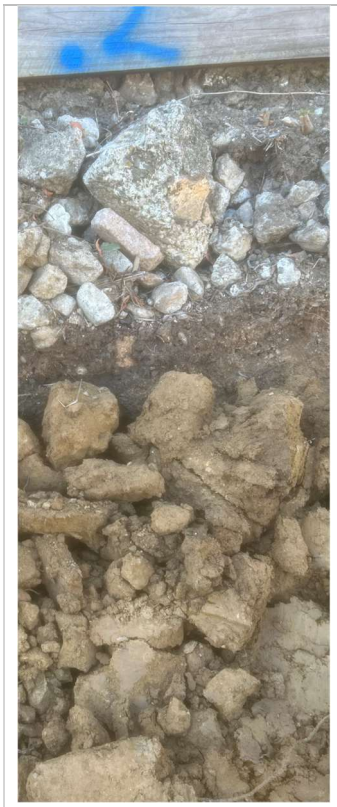
| SAMPLE ID | Sample Depth (m bgs) | Anthropogenic Materials | Sampled_Date | rocarbons (PAH) | | | | | | | | | | Metals | | | | | | | | | TRH | | | | BTEX | | | | | | | Other | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | PAHs (Sum of total) | Phenanthrene | Pyrene | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc | Chromium (hexavalent) | C6-C10 | C10-C16 | C16-C34 | C34-C40 | Benzene | Toluene | Ethyl benzene | Xylene (m & p) | Xylene (o) | Xylenes | Total BTEX | CEC | pH | | |
| Units | | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | | | | |
| EQL | | | - | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 0.4 | 5 | 5 | 5 | 0.1 | 5 | 5 | 1 | | | | | | | | | | | | | | | |
| EIL - Res/Open Space | | | | | | | | | | 170 | | | | 100 | | 245 | 196 | 1112 | | 287 | 420 | | 180 | 120 | 300 | 2800 | | | | | | | | | | | | |
| HIL-A Residential | | | | | | | | | | | 300 | | | 100 | 20 | 100 | 6000 | 300 | 10 | 400 | 7400 | 100 | 45 | 110 | 2500 | 10000 | | | | | | | | | | | | |
| BH20_0.3 | 0.3 | | 3/09/2021 | | | | | | | | | | | 3.4 | <0.4 | 72 | 20 | 20 | <0.1 | 22 | 39 | | | | | | | | | | | | | | | | | |
| BH20_0.5 | 0.5 | | 3/09/2021 | | | | | | | | | | | 3.2 | <0.4 | 100 | 18 | <5 | <0.1 | 41 | 27 | | | | | | | | | | | | | | | | | |
| BH21_0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | <2 | <0.4 | 7.8 | <5 | 8.5 | <0.1 | <5 | 31 | | | | | | | | | | | | | | | | | |
| BH21_0.3 | 0.3 | | 3/09/2021 | | | | | | | | | | | 12 | <0.4 | 170 | 30 | 120 | <0.1 | 61 | 160 | | | | | | | | | | | | | | | | | |
| BH21_0.5 | 0.5 | | 3/09/2021 | | | | | | | | | | | 11 | <0.4 | 180 | 28 | <5 | <0.1 | 84 | 34 | | | | | | | | | | | | | | | | | |
| MW01 - 0.1 | 0.1 | | 17/11/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW01 - 0.25 | 0.25 | | 17/11/2021 | | | | | | | | | | | 9.9 | <0.4 | 6.5 | 25 | 21 | <0.1 | 7.8 | 80 | <1 | | | | | | | | | | | | 17 | 5.5 | | | |
| MW01 - 0.50 | 0.5 | | 17/11/2021 | | | | | | | | | | | <2 | <0.4 | 89 | 9.3 | <5 | <0.1 | 23 | 19 | <1 | | | | | | | | | | | | | | | | |
| MW01_0.75 | 0.75 | | 17/11/2021 | | | | | | | | | | | 3.5 | <0.5 | 120 | 24 | <5 | <0.1 | 52 | 30 | <1 | | | | | | | | | | | | 33 | 6.6 | | | |
| MW01_1.0 | 1 | | 17/11/2021 | | | | | | | | | | | 3.5 | <0.5 | 100 | 21 | <5 | <0.1 | 54 | 25 | <1 | | | | | | | | | | | | | | | | |
| SLAG-1 | 0-0.1 | | 3/09/2021 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2 | <0.4 | <5 | <5 | 10 | <0.1 | <5 | 19 | <1 | | | | | | | | | | | | | | | | |
| SLAG-2 | 0-0.1 | | 3/09/2021 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2 | <0.4 | <5 | <5 | <5 | <0.1 | <5 | <5 | <1 | | | | | | | | | | | | | | | | |
| BH01_CONCRETE | 0-0.2 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH03_CONCRETE | 0-0.2 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH05_CONCRETE | 0-0.2 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH06_CONCRETE | 0-0.2 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH07_CONCRETE | 0-0.2 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH08_CONCRETE | 0-0.2 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH09_CONCRETE | 0-0.2 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH10_CONCRETE | 0-0.2 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH11_CONCRETE | 0-0.2 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH21_CONCRETE | 0-0.2 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**C.7.2 TCLP Results - Previous Investigations**

| SAMPLE ID | Sample Depth (m) | Sampled_Date | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | Metals | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 4,4'-DDD | 4,4'-DDE | 4,4'-DDT | a-HCH | Aldrin | Aldrin + Dieldrin | b-HCH | Chlordane - Total | DDT + DDE + DDD | d-HCH | Dieldrin | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | Endrin aldehyde | Endrin ketone | g-HCH (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Vic EPA IWRG 621 OCP (Total)* | Vic EPA IWRG 621 Other OCP (Total)* | Chromium | Lead | Zinc |
| Units | - | - | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l |
| BH06_0.5 | 0.5 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | < 0.01 | | |
| BH07_0.3 | 0.3 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | < 0.01 | | |
| BH08_0.3 | 0.3 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | < 0.01 | | |
| BH13_0.1 | 0.1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.11 | 0.9 |
| BH14_0.1 | 0.1 | 3/09/2021 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 | <0.001 | <0.005 | <0.001 | <0.001 | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | 0.1 | 1.1 |
| BH14_0.3 | 0.3 | 3/09/2021 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| BH15_0.1 | 0.1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.07 | 0.66 |
| BH16_0.1 | 0.1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.12 | 0.84 |
| BH16_0.5 | 0.5 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | < 0.01 | | |
| BH19_0.3 | 0.3 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.03 | 0.25 |
| BH21_0.1 | 0.1 | 3/09/2021 | <0.001 | <0.001 | <0.001 | <0.001 | 0.002 | 0.006 | <0.001 | <0.005 | <0.001 | <0.001 | 0.004 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | 0.006 | <0.005 | | | |
| BH21_0.3 | 0.3 | 3/09/2021 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | < 0.01 | < 0.01 | 0.06 |
| BH21_0.5 | 0.5 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | < 0.01 | | |
| BH21_CONCRETE | CONCRETE | 3/09/2021 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| 6P-0.0 (HA02) | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| 7P-0.0 (HA03) | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| 8-0.0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.002 | <0.001 | <0.005 | <0.001 | <0.001 | 0.002 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| 9-0.0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.01 | <0.001 | <0.005 | <0.001 | <0.001 | 0.01 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | 0.01 | <0.005 | | | |
| 9P-0.0 (HA09) | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 | <0.001 | <0.005 | <0.001 | <0.001 | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| 10-0.0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.004 | <0.001 | <0.005 | <0.001 | <0.001 | 0.004 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| 11-0.0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.02 | <0.001 | <0.005 | <0.001 | <0.001 | 0.02 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | 0.02 | <0.005 | | | |
| 13P-0.0 (HA07) | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| 14P-0.0 (HA10) | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.003 | <0.001 | <0.005 | <0.001 | <0.001 | 0.003 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| 15-0.0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.002 | <0.001 | <0.005 | <0.001 | <0.001 | 0.002 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| 34-0.0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.012 | <0.001 | <0.005 | <0.001 | <0.001 | 0.012 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | 0.012 | <0.005 | | | |
| 36-0.0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.004 | <0.001 | <0.005 | <0.001 | <0.001 | 0.004 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |

# APPENDIX D: PHOTOGRAPHS

# D.1 BOUNDARY FENCE PHOTOGRAPHS



Example of excavation to Eastern Boundary Fence

Eastern Boundary Fence with boundary fence. Imported material was place along the boundary fence following excavation and validation.

Excavation along the southern boundary was undertaken to the retaining wall which was the practicable limit of excavation.

Excavation along the southern boundary. Imported material was placed against wall following excavation and collection of validation samples.

Excavation along the western boundary of the Site. The survey peg shown is offset 0.5 m west off the Site boundary.

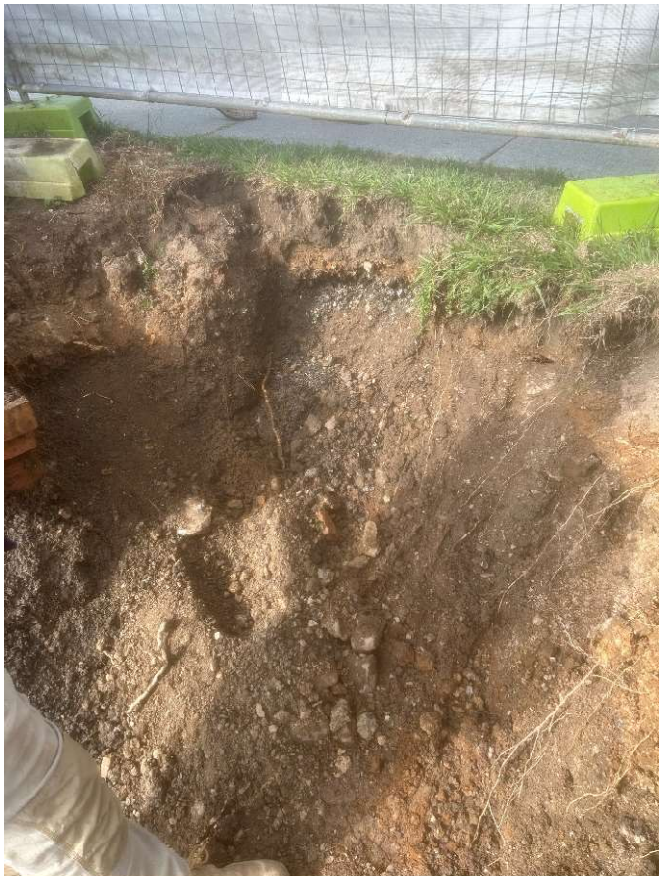
Excavation along the western boundary of the Site. The survey peg shown is offset 0.5 m west off the Site boundary.

Excavation along the western boundary of the Site. The survey peg shown is offset 0.5 m west off the Site boundary.

Excavation along the northern boundary required the removal of the boundary fence. Surface materials to natural ground were scrapped to approximately 0.1 m north of the Site boundary marked by the red tape.

Excavation along the northern boundary required the removal of the boundary fence. Surface materials to natural ground were scrapped to approximately 0.1 m north of the Site boundary marked by the red tape.

Excavation along the south western boundary of the Site with the footings of the heritage wall exposed. The footings of the heritage wall extended to natural ground




Excavation in the south western corner of the Site extended beyond the boundary of the Site into the Road Reserve. The photograph shows the excavation taking place past the footings of the heritage wall.

## D.2 VALIDATION SAMPLE PHOTOGRAPHS

## D.3 PRE AND POST REMEDIATION PHOTOGRAPHS

Pre-Remediation: Photograph of the Site in 2019 (source: Google Street View)

Post-Remediation: Photograph of the Site on the 26 October 2023

Post-Remediation: Photograph of the Site on the 26 October 2023

# APPENDIX E: LABORATORY REPORTS

# APPENDIX F: QAQC REPORT

The sampling and analysis process (collection, transport and analysis) was guided by the sampling and analysis quality plan and conducted according to standard operating procedures (SOPs) in the field and in the laboratory as part of the quality assurance process, in order minimise the effect of natural and inherent variability and extraneous factors on data quality.

To measure the effectiveness of the quality assurance process, quality control (QC) samples are part of the field and laboratory procedures to assess both the accuracy and the precision of the results produced.

- Measures of ACCURACY are indicative of how close the reported results are to the true result. For practical reasons, measures of accuracy are usually confined to the laboratory procedures.
- Measures of PRECISION provide information on the variability in the results. Precision can be assessed as:
  - “repeatability” or intra-laboratory variation – the degree of variation in a result when the same laboratory analyses a sample (or blind replicate) several times, and;
  - “reproducibility” or inter-laboratory variation – the degree of variation in a result when a different laboratory separately analyses a sample.

The quality control was based on guidelines presented in:

- NEPM [the National Environment Protection (Assessment of Site Contamination) Measure 1999
- AS4482.1 Guide to the sampling and investigation of potentially contaminated soil, Part 1: Non-Volatile and Semi-volatile Substances.

The outcome of the Field and Laboratory quality control are presented in this Quality Assurance / Quality Control report.

## F.1 FIELD QUALITY CONTROL (QAQC) SAMPLES

| | Soil |
|---|---|
| **Days of sampling** | 10 |
| **Primary samples** | 317 |
| **Inter-laboratory Field Duplicates (at least 1 in 20 samples)** | 18 |
| **Intra-laboratory Field Duplicates (at least 1 in 20 samples)** | 26 |
| **Field Blank (as required)** | 8 |
| **Trip Blanks (at least 1 per sampling event)** | 7 |
| **Trip Spike (where loss of organics in transport is considered a risk)** | Not required for investigation. |
| **Equipment Rinsate (at least 1/day/matrix/equipment)** | 7 |

### Samples Analysed

Primary samples and intra-laboratory duplicates were sent to Eurofins for laboratory analysis.

Inter-laboratory duplicate samples were submitted to ALS as QAQC check of the primary laboratory.

## Inter-Laboratory and Intra-Laboratory Duplicates

| ITEM | QUESTION | YES | NO (Comment below) |
|---|---|---|---|
| 1 | Were an Adequate Number of inter-laboratory and inter-laboratory duplicates analysed for each chemical? | ☒ | ☐ |
| 2 | Were RPDs within Control Limits? | ☐ | ☒ |

**Comments**

RPDs between primary, inter-laboratory duplicate sample and intra-laboratory duplicate samples are provided in Appendix F.4. Where RPD exceedences have been reported they are considered to be minor and predominately attributed to:

- sample heterogeneity in regard to organo-chlorine pesticides distribution in the soil matrix
- sample heterogeneity in regard to metals distribution in fill materials
- natural variability in regard to metals in natural soil materials.

RPD exceedances are not considered to impact the outcome of the investigation.

## Field Blanks

| ITEM | QUESTION | YES | NO (Comment below) |
|---|---|---|---|
| 1 | Were Field Blanks collected? | ☒ | ☐ |
| 2 | Were the Field Blanks free of contaminants?<br>(If no, comment whether the contaminants present are also detected in the samples and whether they are common laboratory chemicals.) | ☒ | ☐ |

**Comments**

Concentrations of zinc marginally above LOR (5 µg/L) were detected in two field blank samples (QC03-230918 and QC06_FB at 6 µg/L and 8 µg/L respectively). The zinc concentrations detected are potentially associated with zinc in rinsate water and/or sample bottles supplied by the analytical laboratory. Contamination during sampling and/or transport to the laboratory is considered unlikely based on non-detects for other analytes (metals and OCPs). Zinc in validation samples was below the remediation criteria for the site.

## Trip Blanks

| ITEM | QUESTION | YES | NO (Comment below) |
|---|---|---|---|
| 1 | Was a trip blank undertaken on each day of sample? | ☐ | ☒ |
| 2 | Were the Trip Blanks free of contaminants?<br>(If no, comment whether the contaminants present are also detected in the samples and whether they are common laboratory chemicals.) | ☒ | ☐ |

**Comments**

Trip Blanks submitted to the laboratory were requested for analysis of metals/OCPs however the samples were analysed for TRH/BTEXN. The Field Blanks submitted can also a surrogate for the Trip Blanks and did not report evidence of cross-contamination either during sampling or during transport to the laboratory.

## Trip Spike

| ITEM | QUESTION | YES | NO (Comment below) |
|---|---|---|---|
| 1 | Was a trip spike undertaken? | ☐ | ☒ |
| 2 | Was analyte recovery suitable (>50%)?<br>(If no, comment whether the low recovery and apparent concentrations may present a risk of a false negative.) | ☐ | ☐ |

**Comments**

Trip spike samples were not required for the investigation because contaminants of concern were not volatile.

## Rinsate Blanks

| ITEM | QUESTION | YES | NO (Comment below) |
|---|---|---|---|
| 1 | Were Equipment Rinsates collected and analysed every day? | ☐ | ☒ |
| 2 | Were the Equipment Rinsates free of contaminants?<br>(If no, comment whether the contaminants present are also detected in the samples and whether they are common laboratory chemicals.) | ☒ | ☐ |

**Comments**

Rinsate samples were collected on the days where re-usable sampling equipment was used.

Concentrations of the contaminants of concern were reported in the following samples.

| Sample ID | OCPs | Chromium (III+VI) | Copper | Lead | Nickel | Zinc |
|---|---|---|---|---|---|---|
| QC08_230921 | | ✓ | ✓ | ✓ | | ✓ |
| QC05_RB | | | | | | ✓ |
| QC13_230921 | ✓ | ✓ | ✓ | | ✓ | ✓ |

The result for QC_05 is similar to the detection of zinc in some of the field blanks analysed and potentially attributed to laboratory provided rinsate water and/or sample bottles.

Metals and/or OCPs in QC08_230921 (20/9/23) and QC13_230921 (21/9/23) were detected in rinsate samples collected on the 20/9/23 and 21/9/23 respectively. The rinsate samples were collected off a geotechnical pick used to break the ground surface where required. The rinsate sample was collected following cleaning of the geological pick with detergent (Liquinox) and then rinsing of the pick with potable water and drying the pick with clean paper towel (this decontamination procedure was undertaken between each use of the pick).

The detection of metals and OCPs in these samples is potentially attributed to materials which were not removed from the pick and/or dust materials which settled on the pick after decontamination and prior to the collection of the rinsate sample.

Notwithstanding these non-conformances the low detections of some metals and OCP in the rinsate blanks are not considered to have affected the validity of the results noting:

- OCPs were not detected in any soil sample analysed on the 21/9/23 and in the majority of samples on the 20/9/23. Where detected OCPs were found, the concentrations below the remediation criteria.

- Metals were below the remediation criteria with the exception of arsenic in two samples[57] treated fence. It should be noted that arsenic was not detected in the rinsate samples.
- Each sample was collected with a new set of nitrile gloves.
- Non-detects were reported in all other rinsate samples indicating that the decontamination procedures were generally effective.

It is noted that Rinsate blanks were not collected during all sampling events on the basis that reusable sampling equipment was not used on those sampling days.

### Summary of Field Quality Control

In summary, the field QC results are considered acceptable for the purposes of this investigation.

| Field QAQC was: | | |
|---|---|---|
| | ☒ | Satisfactory |
| | ☐ | Partially Satisfactory |
| | ☐ | Unsatisfactory |

## F.2 LABORATORY QUALITY ASSURANCE QUALITY CONTROL

### Laboratories

| ITEM | QUESTION | YES | NO (Comment below) |
|---|---|---|---|
| 1 | Was a NATA registered laboratory used? | ☒ | ☐ |
| 2 | Did the laboratory perform the requested tests? | ☒ | ☐ |
| 3 | Were the laboratory methods adopted NATA endorsed? | ☒ | ☐ |
| 4 | Were the appropriate test procedures followed? | ☒ | ☐ |
| 5 | Were the reporting limits satisfactory? | ☒ | ☐ |
| 6 | Was the NATA Seal on the reports? | ☒ | ☐ |
| 7 | Were the reports signed by an authorised person? | ☒ | ☐ |

**Comments**

Eurofins – Eurofins has been adopted as the primary laboratory for analysis of soil samples. Eurofins is a NATA accredited laboratory (NATA accreditation number 1261) for all the analytes requiring analysis.

ALS Environmental – ALS has been adopted as the secondary laboratory for analysis of soil samples. ALS is a NATA accredited laboratory (NATA accreditation number 825) for all the analytes requiring analysis.

| Precision / Accuracy of the Laboratory Report | | |
|---|---|---|
| | ☒ | Satisfactory |
| | ☐ | Partially Satisfactory |
| | ☐ | Unsatisfactory |

[57] Arsenic contamination associated with these samples is attributed to a copper chromium arsenic (CCA) treated fence.

## Sample Handling

| ITEM | QUESTION | YES | NO (Comment below) |
|---|---|---|---|
| 1 | Were the sample **holding times** met? | ☐ | ☒ |
| 2 | Were the samples in **proper custody** between the field and reaching the laboratory? | ☒ | ☐ |
| 3 | Were the samples **properly and adequately** preserved?<br>*This includes keeping the samples chilled, where applicable.* | ☒ | ☐ |
| 4 | Were the samples received by the laboratory in good condition? | ☒ | ☐ |

**Comments**

Batch 1055969 reported a holding time breach of 1-day for OCPs and PAHs. Samples were delivered to the laboratory in chilled insulated containers and stored by the laboratory in refrigerated areas. The contaminant of concern (OCPs) have low volatility and the non-conformance is considered to be minor and not have affected the validity of the results.

| Sample Handling was: | | |
|---|---|---|
| | ☒ | Satisfactory |
| | ☐ | Partially Satisfactory |
| | ☐ | Unsatisfactory |

## Laboratory Blanks.

Eurofins and ALS laboratory method blank results reported concentrations of contaminants below the laboratory reporting limits.

## Laboratory Duplicates

Internal laboratory duplicates analysed by Eurofins and ALS were within acceptable limits (<30% RPD) with the exception of the following batches which reported non-conformances outside the acceptance limits:

- Eurofins: 1025750, 1028239, 1029417, 1036638 and 1039102
- ALS: EB2334519

Non-conformances are likely to be attributed to sample heterogeneity and were considered by the laboratories prior to the issuing of the laboratory reports.

## Laboratory Control Samples

Matrix spike analyses were performed by Eurofins and ALS were within the adopted 70% – 130% acceptability criteria with the exception of the following batches which reported non-conformances outside the acceptance limits:

- ALS: EB2328260, EB2328861, EB2340686

Non-conformances are likely to be attributed to sample heterogeneity and were considered by the laboratories prior to the issuing of the laboratory reports.

### Matrix Spikes

Matrix spike analyses were performed by Eurofins and ALS were within the adopted 70% – 130% acceptability criteria. Minor non-conformances were reported in the following batches:

- Eurofin: 1027451, 1036638
- ALS: EB2332532 and EB2328260. EB2330054 EB2332532

Non-conformances in matrix spike recoveries are likely to be attributed to sample heterogeneity and were considered by the laboratories prior to the issuing of the laboratory reports.

### Surrogate Recoveries

Surrogate recoveries were all within the target recovery of 70-130% with the exception of the following batches which reported minor non-conformances which were considered by the laboratories prior to the issuing of the laboratory reports.

- ALS: EB2328260
- Eurofins: 1024818, 1027451, 1028239, 1029417, 1035652, **1036638**, 1039102, 1055969.

### Summary of Internal Laboratory Quality Control

| ITEM | QUESTION | YES | NO (Comment below) |
|---|---|---|---|
| 1 | Were the laboratory blanks/reagents blanks free of contamination? | ☒ | ☐ |
| 2 | Were the spike recoveries within control limits? | ☐ | ☒ |
| 3 | Were the RPDs of the laboratory duplicates within control limits? | ☐ | ☒ |
| 4 | Were the surrogate recoveries within control limits? | ☐ | ☒ |

Comment: refer to comments on the previous pages in regard to spike recoveries, laboratory RPDs and surrogates.

| Laboratory internal QAQC was: | | |
|---|---|---|
| | ☒ | Satisfactory |
| | ☐ | Partially Satisfactory |
| | ☐ | Unsatisfactory |

## F.3 SUMMARY OF DATA QUALITY REVIEW

In summary, a number of minor non-conformances were identified in the laboratory QA/QC data. These non-conformances however are not considered to preclude the use of the analytical data for this investigation.

## F.4 QAQC RPD AND BLANK SAMPLE TABLES

| | | | | | BTEX | | | | | | | Total Petroleum Hydrocarbons | Total Recoverable Hydrocarbons | | Metals | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Benzene | Toluene | Ethylbenzene | Xylene Total | Naphthalene (VOC) | Xylene (o) | Xylene (m & p) | C6 - C9 | F1 (C6 - C10) | F1 (C6 - C10) less BTEX | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc |
| | | | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| **EQL** | | | | | **0.1** | **0.1** | **0.1** | **0.3** | **0.5** | **0.1** | **0.2** | **20** | **20** | **20** | **1** | **0.2** | **1** | **1** | **1** | **0.1** | **1** | **5** |
| **Field ID** | **Sample Type** | **Date** | **Matrix Type** | **Lab Report Number** | | | | | | | | | | | | | | | | | | |
| QC01_230912 | Field_B | 12 Sep 2023 | Water | 1025750 | - | - | - | - | - | - | - | - | - | - | <1 | <0.2 | <1 | <1 | <1 | <0.1 | <1 | <5 |
| QC02_230912 | Rinsate | 12 Sep 2023 | Water | 1025750 | - | - | - | - | - | - | - | - | - | - | <1 | <0.2 | <1 | <1 | <1 | <0.1 | <1 | <5 |
| QC03-230918 | Field_B | 18 Sep 2023 | Water | 1027451 | - | - | - | - | - | - | - | - | - | - | <1 | <0.2 | <1 | <1 | <1 | <0.1 | <1 | **6** |
| QC03 FB | Field_B | 07 Sep 2023 | Water | 1024818 | - | - | - | - | - | - | - | - | - | - | <1 | <0.2 | <1 | <1 | <1 | <0.1 | <1 | <5 |
| QC04-230918 | Rinsate | 18 Sep 2023 | Water | 1027451 | - | - | - | - | - | - | - | - | - | - | <1 | <0.2 | <1 | <1 | <1 | <0.1 | <1 | <5 |
| QC04 RB | Rinsate | 07 Sep 2023 | Water | 1024818 | - | - | - | - | - | - | - | - | - | - | <1 | <0.2 | <1 | <1 | <1 | <0.1 | <1 | <5 |
| QC05-230918 | Trip_B | 18 Sep 2023 | Soil | 1027451 | <0.1 | <0.1 | <0.1 | <0.3 | <0.5 | <0.1 | <0.2 | <20 | <20 | <20 | - | - | - | - | - | - | - | - |
| QC05_230912 | Trip_B | 12 Sep 2023 | Soil | 1025750 | <0.1 | <0.1 | <0.1 | <0.3 | <0.5 | <0.1 | <0.2 | <20 | <20 | <20 | - | - | - | - | - | - | - | - |
| QC05_RB | Rinsate | 16 Oct 2023 | Water | 1035652 | - | - | - | - | - | - | - | - | - | - | <1 | <0.2 | <1 | <1 | <1 | <0.1 | <1 | **8** |
| QC06_FB | Field_B | 16 Oct 2023 | Water | 1035652 | - | - | - | - | - | - | - | - | - | - | <1 | <0.2 | <1 | <1 | <1 | <0.1 | <1 | **8** |
| QC07_TB | Trip_B | 16 Oct 2023 | Soil | 1035652 | <0.1 | <0.1 | <0.1 | <0.3 | <0.5 | <0.1 | <0.2 | <20 | <20 | <20 | - | - | - | - | - | - | - | - |
| QC08_230921 | Rinsate | 20 Sep 2023 | Water | 1028239 | - | - | - | - | - | - | - | - | - | - | <1 | <0.2 | **2** | **6** | **3** | <0.1 | **4** | **83** |
| QC09_230921 | Field_B | 20 Sep 2023 | Water | 1028239 | - | - | - | - | - | - | - | - | - | - | <1 | <0.2 | <1 | <1 | <1 | <0.1 | <1 | <5 |
| QC12_230921 | Field_B | 21 Sep 2023 | Water | 1029417 | - | - | - | - | - | - | - | - | - | - | <1 | <0.2 | <1 | <1 | <1 | <0.1 | <1 | <5 |
| QC13_230921 | Rinsate | 21 Sep 2023 | Water | 1029417 | - | - | - | - | - | - | - | - | - | - | <1 | <0.2 | **4** | **2** | <1 | <0.1 | **10** | **45** |
| QC122 | Rinsate | 26 Oct 2023 | Water | 1039102 | - | - | - | - | - | - | - | - | - | - | <1 | <0.2 | <1 | <1 | <1 | <0.1 | <1 | <5 |
| QC123 | Field_B | 26 Oct 2023 | Water | 1039102 | - | - | - | - | - | - | - | - | - | - | <1 | <0.2 | <1 | <1 | <1 | <0.1 | <1 | <5 |
| Trip Blank | Trip_B | 26 Oct 2023 | Soil | 1039102 | <0.1 | <0.1 | <0.1 | <0.3 | <0.5 | <0.1 | <0.2 | <20 | <20 | <20 | - | - | - | - | - | - | - | - |
| TRIP BLANK | Trip_B | 18 Oct 2023 | Soil | 1036638 | <0.1 | <0.1 | <0.1 | <0.3 | <0.5 | <0.1 | <0.2 | <20 | <20 | <20 | - | - | - | - | - | - | - | - |

| | | | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | Dieldrin | Endosulfan I | Endosulfan II | Endrin | Endrin aldehyde | Endrin ketone | g-BHC (Lindane) | Heptachlor | Methoxychlor |
| | | | | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| **EQL** | | | | | **0.2** | **0.2** | **0.2** | **0.2** | **0.2** | **2** | **0.2** | **0.2** | **0.2** | **0.2** | **0.2** | **0.2** | **0.2** | **0.2** | **0.2** | **0.2** | **0.2** | **0.2** |
| **Field ID** | **Sample Type** | **Date** | **Matrix Type** | **Lab Report Number** | | | | | | | | | | | | | | | | | | |
| QC01_230912 | Field_B | 12 Sep 2023 | Water | 1025750 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| QC02_230912 | Rinsate | 12 Sep 2023 | Water | 1025750 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| QC03-230918 | Field_B | 18 Sep 2023 | Water | 1027451 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| QC03 FB | Field_B | 07 Sep 2023 | Water | 1024818 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| QC04-230918 | Rinsate | 18 Sep 2023 | Water | 1027451 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| QC04 RB | Rinsate | 07 Sep 2023 | Water | 1024818 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| QC05-230918 | Trip_B | 18 Sep 2023 | Soil | 1027451 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QC05_230912 | Trip_B | 12 Sep 2023 | Soil | 1025750 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QC05_RB | Rinsate | 16 Oct 2023 | Water | 1035652 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| QC06_FB | Field_B | 16 Oct 2023 | Water | 1035652 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| QC07_TB | Trip_B | 16 Oct 2023 | Soil | 1035652 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QC08_230921 | Rinsate | 20 Sep 2023 | Water | 1028239 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| QC09_230921 | Field_B | 20 Sep 2023 | Water | 1028239 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| QC12_230921 | Field_B | 21 Sep 2023 | Water | 1029417 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QC13_230921 | Rinsate | 21 Sep 2023 | Water | 1029417 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QC122 | Rinsate | 26 Oct 2023 | Water | 1039102 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| QC123 | Field_B | 26 Oct 2023 | Water | 1039102 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Trip Blank | Trip_B | 26 Oct 2023 | Soil | 1039102 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TRIP BLANK | Trip_B | 18 Oct 2023 | Soil | 1036638 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| | | | | | Organochlorine pesticides EPAVic | Other organochlorine pesticides EPAVic | Endosulfan sulphate | Heptachlor epoxide | Hexachlorobenzene | Toxaphene | DDT+DDE+DDD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| **EQL** | | | | | **2** | **2** | **0.2** | **0.2** | **0.2** | **5** | **0.2** |
| **Field ID** | **Sample Type** | **Date** | **Matrix Type** | **Lab Report Number** | | | | | | | |
| QC01_230912 | Field_B | 12 Sep 2023 | Water | 1025750 | <2 | <2 | <0.2 | <0.2 | <0.2 | <5 | <0.2 |
| QC02_230912 | Rinsate | 12 Sep 2023 | Water | 1025750 | <2 | <2 | <0.2 | <0.2 | <0.2 | <5 | <0.2 |
| QC03-230918 | Field_B | 18 Sep 2023 | Water | 1027451 | <2 | <2 | <0.2 | <0.2 | <0.2 | <5 | <0.2 |
| QC03 FB | Field_B | 07 Sep 2023 | Water | 1024818 | <2 | <2 | <0.2 | <0.2 | <0.2 | <5 | <0.2 |
| QC04-230918 | Rinsate | 18 Sep 2023 | Water | 1027451 | <2 | <2 | <0.2 | <0.2 | <0.2 | <5 | <0.2 |
| QC04 RB | Rinsate | 07 Sep 2023 | Water | 1024818 | <2 | <2 | <0.2 | <0.2 | <0.2 | <5 | <0.2 |
| QC05-230918 | Trip_B | 18 Sep 2023 | Soil | 1027451 | - | - | - | - | - | - | - |
| QC05_230912 | Trip_B | 12 Sep 2023 | Soil | 1025750 | - | - | - | - | - | - | - |
| QC05_RB | Rinsate | 16 Oct 2023 | Water | 1035652 | <2 | <2 | <0.2 | <0.2 | <0.2 | <5 | <0.2 |
| QC06_FB | Field_B | 16 Oct 2023 | Water | 1035652 | <2 | <2 | <0.2 | <0.2 | <0.2 | <5 | <0.2 |
| QC07_TB | Trip_B | 16 Oct 2023 | Soil | 1035652 | - | - | - | - | - | - | - |
| QC08_230921 | Rinsate | 20 Sep 2023 | Water | 1028239 | <2 | <2 | <0.2 | <0.2 | <0.2 | - | <0.2 |
| QC09_230921 | Field_B | 20 Sep 2023 | Water | 1028239 | <2 | <2 | <0.2 | <0.2 | <0.2 | <5 | <0.2 |
| QC12_230921 | Field_B | 21 Sep 2023 | Water | 1029417 | - | - | - | - | - | - | - |
| QC13_230921 | Rinsate | 21 Sep 2023 | Water | 1029417 | - | - | - | - | - | - | - |
| QC122 | Rinsate | 26 Oct 2023 | Water | 1039102 | <2 | <2 | <0.2 | <0.2 | <0.2 | <5 | <0.2 |
| QC123 | Field_B | 26 Oct 2023 | Water | 1039102 | <2 | <2 | <0.2 | <0.2 | <0.2 | <5 | <0.2 |
| Trip Blank | Trip_B | 26 Oct 2023 | Soil | 1039102 | - | - | - | - | - | - | - |
| TRIP BLANK | Trip_B | 18 Oct 2023 | Soil | 1036638 | - | - | - | - | - | - | - |

Appendix F.4 RPD Table

| | | | | | Metals | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT |
| | | | | | 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 |
| **EQL** | | | | | **2** | **0.4** | **2** | **5** | **5** | **0.1** | **2** | **5** | **0.05** | **0.05** | **0.05** | **0.05** | **0.05** | **0.05** | **0.05** | **0.05** | **0.05** |
| **Field ID** | **Sample Type** | **Date** | **Matrix Type** | **Lab Report Number** | | | | | | | | | | | | | | | | | |
| V07_230908 | Normal | 07 Sep 2023 | Soil | 1024818 | 9.4 | <0.5 | 75 | 9.6 | 9.5 | <0.1 | 21 | 26 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.2 | <0.05 | <0.05 | <0.05 |
| QC01 DUP | Field_D | 07 Sep 2023 | Soil | 1024818 | 8.4 | <0.5 | 78 | 9.9 | 11 | <0.1 | 21 | 24 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.7 | <0.05 | <0.05 | <0.05 |
| RPD | | | | | 11 | 0 | 4 | 3 | 15 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 53 | 0 | 0 | 0 |
| V07_230908 | Normal | 07 Sep 2023 | Soil | 1024818 | 9.4 | <0.5 | 75 | 9.6 | 9.5 | <0.1 | 21 | 26 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.2 | <0.05 | <0.05 | <0.05 |
| QC02 TRIP | Interlab_D | 07 Sep 2023 | Soil | EB2328260 | 7 | <1 | 87 | 10 | <5 | <0.1 | 19 | 13 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 |
| RPD | | | | | 29 | 0 | 15 | 4 | 62 | 0 | 10 | 67 | 0 | 0 | 0 | 0 | 0 | 184 | 0 | 0 | 0 |
| HS07_NW_230912 | Normal | 12 Sep 2023 | Soil | 1025750 | 7.8 | <0.5 | 46 | 8.8 | 5.9 | <0.1 | 43 | 36 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC03_230912 | Field_D | 12 Sep 2023 | Soil | 1025750 | 2.1 | <0.5 | 40 | 6.4 | <5 | <0.1 | 31 | 23 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| RPD | | | | | 115 | 0 | 14 | 32 | 17 | 0 | 32 | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS07_NW_230912 | Normal | 12 Sep 2023 | Soil | 1025750 | 7.8 | <0.5 | 46 | 8.8 | 5.9 | <0.1 | 43 | 36 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC04_230912 | Interlab_D | 12 Sep 2023 | Soil | EB2328861 | <5 | <1 | 27 | 5 | <5 | <0.1 | 22 | 15 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 |
| RPD | | | | | 44 | 0 | 52 | 55 | 17 | 0 | 65 | 82 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS10_NW_230918 | Normal | 18 Sep 2023 | Soil | 1027451 | 8.5 | <0.5 | 45 | 9.1 | <5 | <0.1 | 24 | 23 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC01-230918 | Field_D | 18 Sep 2023 | Soil | 1027451 | 15 | <0.5 | 22 | 29 | 98 | <0.1 | 9.5 | 160 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| RPD | | | | | 55 | 0 | 69 | 104 | 181 | 0 | 87 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HS10_NW_230918 | Normal | 18 Sep 2023 | Soil | 1027451 | 8.5 | <0.5 | 45 | 9.1 | <5 | <0.1 | 24 | 23 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC02_230918 | Interlab_D | 18 Sep 2023 | Soil | EB2329349 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RPD | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HSB03_ASH_230920 | Normal | 20 Sep 2023 | Soil | 1028239 | 21 | <0.5 | 11 | 37 | 48 | <0.1 | 11 | 72 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC06_230920 | Field_D | 20 Sep 2023 | Soil | 1028239 | 18 | <0.5 | 8.3 | 40 | 62 | <0.1 | 11 | 79 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| RPD | | | | | 15 | 0 | 28 | 8 | 25 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HSB03_ASH_230920 | Normal | 20 Sep 2023 | Soil | 1028239 | 21 | <0.5 | 11 | 37 | 48 | <0.1 | 11 | 72 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC 07 _230920 (TRIP) | Interlab_D | 20 Sep 2023 | Soil | EB2329798 | 24 | <1 | 6 | 39 | 44 | <0.1 | 9 | 80 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 |
| RPD | | | | | 13 | 0 | 59 | 5 | 9 | 0 | 20 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TR03_TRENCH FLOOR_230921 | Normal | 21 Sep 2023 | Soil | 1029417 | 2.6 | <0.5 | 67 | 15 | 13 | <0.1 | 37 | 29 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC14_230921 | Field_D | 21 Sep 2023 | Soil | 1029417 | 4.1 | <0.5 | 130 | 21 | 5.2 | <0.1 | 72 | 42 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| RPD | | | | | 45 | 0 | 64 | 33 | 86 | 0 | 64 | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TR03_TRENCH FLOOR_230921 | Normal | 21 Sep 2023 | Soil | 1029417 | 2.6 | <0.5 | 67 | 15 | 13 | <0.1 | 37 | 29 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC15_230921 | Interlab_D | 21 Sep 2023 | Soil | EB2330054 | <5 | <1 | 58 | 11 | <5 | <0.1 | 36 | 16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 |
| RPD | | | | | 0 | 0 | 14 | 31 | 89 | 0 | 3 | 58 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HSB06_ASH_231016 | Normal | 16 Oct 2023 | Soil | 1035652 | 7.3 | <0.5 | 6.6 | 7.6 | 94 | <0.1 | <5 | 50 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC03_DUP_231016 | Field_D | 16 Oct 2023 | Soil | 1035652 | 16 | <0.5 | 17 | 17 | 81 | <0.1 | 8.7 | 120 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| RPD | | | | | 75 | 0 | 88 | 76 | 15 | 0 | 54 | 82 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HSB06_ASH_231016 | Normal | 16 Oct 2023 | Soil | 1035652 | 7.3 | <0.5 | 6.6 | 7.6 | 94 | <0.1 | <5 | 50 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC01_DUP_231016 | Field_D | 16 Oct 2023 | Soil | 1035652 | 5.9 | <0.5 | 29 | 15 | 49 | <0.1 | 9.7 | 120 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| RPD | | | | | 21 | 0 | 126 | 65 | 63 | 0 | 64 | 82 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HSB06_ASH_231016 | Normal | 16 Oct 2023 | Soil | 1035652 | 7.3 | <0.5 | 6.6 | 7.6 | 94 | <0.1 | <5 | 50 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC04_Trip | Interlab_D | 16 Oct 2023 | Soil | EB2332532 | 7 | <1 | 10 | 15 | 39 | <0.1 | 6 | 44 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 |
| RPD | | | | | 4 | 0 | 41 | 65 | 83 | 0 | 18 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HSB06_ASH_231016 | Normal | 16 Oct 2023 | Soil | 1035652 | 7.3 | <0.5 | 6.6 | 7.6 | 94 | <0.1 | <5 | 50 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC02_Trip | Interlab_D | 16 Oct 2023 | Soil | EB2332532 | 7 | <1 | 11 | 10 | 76 | <0.1 | 5 | 53 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 |
| RPD | | | | | 4 | 0 | 50 | 27 | 21 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TS03_B | Normal | 18 Oct 2023 | Soil | 1036638 | 5.6 | <0.4 | 78 | 17 | <5 | <0.1 | 25 | 23 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC102 | Interlab_D | 18 Oct 2023 | Soil | ES2336387 | 6 | <1 | 96 | 16 | <5 | <0.1 | 25 | 27 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 |
| RPD | | | | | 7 | 0 | 21 | 6 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TS04_B | Normal | 18 Oct 2023 | Soil | 1036638 | 9.2 | <0.4 | 120 | 24 | <5 | <0.1 | 49 | 30 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC101 | Field_D | 18 Oct 2023 | Soil | 1036638 | 6.5 | <0.4 | 97 | 20 | <5 | <0.1 | 33 | 31 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| RPD | | | | | 34 | 0 | 21 | 18 | 0 | 0 | 39 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TS05_W1 | Normal | 18 Oct 2023 | Soil | 1036638 | 12 | <0.4 | 110 | 13 | <5 | <0.1 | 24 | 24 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC103 | Field_D | 18 Oct 2023 | Soil | 1036638 | 6.1 | <0.4 | 62 | 11 | 10 | <0.1 | 20 | 30 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| RPD | | | | | 65 | 0 | 56 | 17 | 67 | 0 | 18 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TS05_W1 | Normal | 18 Oct 2023 | Soil | 1036638 | 12 | <0.4 | 110 | 13 | <5 | <0.1 | 24 | 24 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC104 | Interlab_D | 18 Oct 2023 | Soil | ES2336387 | 8 | <1 | 71 | 11 | 17 | <0.1 | 22 | 45 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 |
| RPD | | | | | 40 | 0 | 43 | 17 | 109 | 0 | 9 | 61 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| A1 | Normal | 26 Oct 2023 | Soil | 1039102 | 6.2 | <0.5 | 99 | 34 | <5 | <0.1 | 29 | 26 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC107 | Field_D | 26 Oct 2023 | Soil | 1039102 | 2.5 | <0.5 | 120 | 27 | 5.0 | <0.1 | 32 | 28 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| RPD | | | | | 85 | 0 | 19 | 23 | 0 | 0 | 10 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| A1 | Normal | 26 Oct 2023 | Soil | 1039102 | 6.2 | <0.5 | 99 | 34 | <5 | <0.1 | 29 | 26 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |

| | | | | | Metals | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT |
| | | | | | 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 |
| QC106 | Field_D | 26 Oct 2023 | Soil | 1039102 | 2.8 | <0.5 | 120 | 30 | <5 | <0.1 | 32 | 28 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| RPD | | | | | 76 | 0 | 19 | 12 | 0 | 0 | 10 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| A1 | Normal | 26 Oct 2023 | Soil | 1039102 | 6.2 | <0.5 | 99 | 34 | <5 | <0.1 | 29 | 26 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC107 | Interlab_D | 26 Oct 2023 | Soil | EB2334519 | <5 | <1 | 56 | 22 | <5 | <0.1 | 14 | 13 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 |
| RPD | | | | | 21 | 0 | 55 | 43 | 0 | 0 | 70 | 67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C3 | Normal | 26 Oct 2023 | Soil | 1039102 | <2 | <0.5 | 47 | <5 | 5.7 | <0.1 | 15 | 15 | <0.05 | <0.05 | <0.05 | 0.98 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC109 | Field_D | 26 Oct 2023 | Soil | 1039102 | 4.9 | <0.5 | 120 | 16 | 9.2 | <0.1 | 51 | 30 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| RPD | | | | | 84 | 0 | 87 | 105 | 47 | 0 | 109 | 67 | 0 | 0 | 0 | 181 | 0 | 0 | 0 | 0 | 0 |
| C3 | Normal | 26 Oct 2023 | Soil | 1039102 | <2 | <0.5 | 47 | <5 | 5.7 | <0.1 | 15 | 15 | <0.05 | <0.05 | <0.05 | 0.98 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC108 | Field_D | 26 Oct 2023 | Soil | 1039102 | 5.3 | <0.5 | 49 | 9.1 | 22 | <0.1 | 18 | 36 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| RPD | | | | | 90 | 0 | 4 | 58 | 118 | 0 | 18 | 82 | 0 | 0 | 0 | 181 | 0 | 0 | 0 | 0 | 0 |
| C3 | Normal | 26 Oct 2023 | Soil | 1039102 | <2 | <0.5 | 47 | <5 | 5.7 | <0.1 | 15 | 15 | <0.05 | <0.05 | <0.05 | 0.98 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC109 | Interlab_D | 26 Oct 2023 | Soil | EB2334519 | <5 | <1 | 35 | <5 | 9 | <0.1 | 9 | 10 | <0.05 | <0.05 | <0.05 | 0.70 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 |
| RPD | | | | | 0 | 0 | 29 | 0 | 45 | 0 | 50 | 40 | 0 | 0 | 0 | 33 | 0 | 0 | 0 | 0 | 0 |
| C7 | Normal | 26 Oct 2023 | Soil | 1039102 | 9.5 | <0.5 | 130 | 17 | 9.6 | <0.1 | 34 | 36 | <0.05 | <0.05 | 0.09 | 0.49 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC121 | Field_D | 26 Oct 2023 | Soil | 1039102 | 9.9 | <0.5 | 140 | 22 | 7.1 | <0.1 | 41 | 42 | <0.05 | <0.05 | 0.07 | 0.07 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| RPD | | | | | 4 | 0 | 7 | 26 | 30 | 0 | 19 | 15 | 0 | 0 | 25 | 150 | 0 | 0 | 0 | 0 | 0 |
| C7 | Normal | 26 Oct 2023 | Soil | 1039102 | 9.5 | <0.5 | 130 | 17 | 9.6 | <0.1 | 34 | 36 | <0.05 | <0.05 | 0.09 | 0.49 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC120 | Field_D | 26 Oct 2023 | Soil | 1039102 | 10 | <0.5 | 120 | 18 | 15 | <0.1 | 33 | 40 | <0.05 | <0.05 | 0.15 | 0.15 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| RPD | | | | | 5 | 0 | 8 | 6 | 44 | 0 | 3 | 11 | 0 | 0 | 50 | 106 | 0 | 0 | 0 | 0 | 0 |
| C7 | Normal | 26 Oct 2023 | Soil | 1039102 | 9.5 | <0.5 | 130 | 17 | 9.6 | <0.1 | 34 | 36 | <0.05 | <0.05 | 0.09 | 0.49 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC121 | Interlab_D | 26 Oct 2023 | Soil | EB2334519 | 6 | <1 | 67 | 15 | 15 | <0.1 | 24 | 37 | <0.05 | <0.05 | 0.19 | 1.63 | <0.05 | 0.21 | <0.05 | <0.05 | <0.2 |
| RPD | | | | | 45 | 0 | 64 | 12 | 44 | 0 | 34 | 3 | 0 | 0 | 71 | 108 | 0 | 71 | 0 | 0 | 0 |
| D10 | Normal | 26 Oct 2023 | Soil | 1039102 | 6.1 | <0.5 | 38 | 18 | 50 | 0.1 | 13 | 230 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC117 | Field_D | 26 Oct 2023 | Soil | 1039102 | 8.0 | <0.5 | 81 | 22 | 34 | <0.1 | 27 | 120 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| RPD | | | | | 27 | 0 | 72 | 20 | 38 | 0 | 70 | 63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D10 | Normal | 26 Oct 2023 | Soil | 1039102 | 6.1 | <0.5 | 38 | 18 | 50 | 0.1 | 13 | 230 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC116 | Field_D | 26 Oct 2023 | Soil | 1039102 | 7.7 | <0.5 | 47 | 18 | 54 | 0.1 | 16 | 210 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| RPD | | | | | 23 | 0 | 21 | 0 | 8 | 0 | 21 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D10 | Normal | 26 Oct 2023 | Soil | 1039102 | 6.1 | <0.5 | 38 | 18 | 50 | 0.1 | 13 | 230 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC117 | Interlab_D | 26 Oct 2023 | Soil | EB2334519 | <5 | <1 | 41 | 13 | 31 | <0.1 | 11 | 100 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 |
| RPD | | | | | 20 | 0 | 8 | 32 | 47 | 0 | 17 | 79 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| E5 | Normal | 26 Oct 2023 | Soil | 1039102 | 5.0 | <0.5 | 73 | 14 | 10 | <0.1 | 21 | 25 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.4 | <0.05 | <0.05 | <0.05 |
| QC111 | Field_D | 26 Oct 2023 | Soil | 1039102 | 4.6 | <0.5 | 68 | 5.9 | <5 | <0.1 | 18 | 15 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.2 | <0.05 | <0.05 | <0.05 |
| RPD | | | | | 8 | 0 | 7 | 81 | 67 | 0 | 15 | 50 | 0 | 0 | 0 | 0 | 0 | 67 | 0 | 0 | 0 |
| E5 | Normal | 26 Oct 2023 | Soil | 1039102 | 5.0 | <0.5 | 73 | 14 | 10 | <0.1 | 21 | 25 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.4 | <0.05 | <0.05 | <0.05 |
| QC110 | Field_D | 26 Oct 2023 | Soil | 1039102 | 4.6 | <0.5 | 67 | 7.1 | <5 | <0.1 | 20 | 16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.2 | <0.05 | <0.05 | <0.05 |
| RPD | | | | | 8 | 0 | 9 | 65 | 67 | 0 | 5 | 44 | 0 | 0 | 0 | 0 | 0 | 67 | 0 | 0 | 0 |
| E5 | Normal | 26 Oct 2023 | Soil | 1039102 | 5.0 | <0.5 | 73 | 14 | 10 | <0.1 | 21 | 25 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.4 | <0.05 | <0.05 | <0.05 |
| QC111 | Interlab_D | 26 Oct 2023 | Soil | EB2334519 | <5 | <1 | 38 | 7 | 8 | <0.1 | 13 | 15 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.65 | <0.05 | <0.05 | <0.2 |
| RPD | | | | | 0 | 0 | 63 | 67 | 22 | 0 | 47 | 50 | 0 | 0 | 0 | 0 | 0 | 48 | 0 | 0 | 0 |
| G7 | Normal | 26 Oct 2023 | Soil | 1039102 | 8.8 | <0.5 | 91 | 23 | 14 | <0.1 | 30 | 47 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.4 | <0.05 | <0.05 | <0.05 |
| QC113 | Field_D | 26 Oct 2023 | Soil | 1039102 | 7.4 | <0.5 | 87 | 25 | 11 | <0.1 | 27 | 45 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.2 | <0.05 | <0.05 | <0.05 |
| RPD | | | | | 17 | 0 | 4 | 8 | 24 | 0 | 11 | 4 | 0 | 0 | 0 | 0 | 0 | 67 | 0 | 0 | 0 |
| G7 | Normal | 26 Oct 2023 | Soil | 1039102 | 8.8 | <0.5 | 91 | 23 | 14 | <0.1 | 30 | 47 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.4 | <0.05 | <0.05 | <0.05 |
| QC112 | Field_D | 26 Oct 2023 | Soil | 1039102 | 9.7 | <0.5 | 100 | 20 | 11 | <0.1 | 37 | 63 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.2 | <0.05 | <0.05 | <0.05 |
| RPD | | | | | 10 | 0 | 9 | 14 | 24 | 0 | 21 | 29 | 0 | 0 | 0 | 0 | 0 | 67 | 0 | 0 | 0 |
| G7 | Normal | 26 Oct 2023 | Soil | 1039102 | 8.8 | <0.5 | 91 | 23 | 14 | <0.1 | 30 | 47 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.4 | <0.05 | <0.05 | <0.05 |
| QC113 | Interlab_D | 26 Oct 2023 | Soil | EB2334519 | <5 | <1 | 48 | 25 | 7 | <0.1 | 15 | 25 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.72 | <0.05 | <0.05 | <0.2 |
| RPD | | | | | 55 | 0 | 62 | 8 | 67 | 0 | 67 | 61 | 0 | 0 | 0 | 0 | 0 | 57 | 0 | 0 | 0 |
| H1 | Normal | 26 Oct 2023 | Soil | 1039102 | 3.7 | <0.5 | 85 | 18 | 21 | <0.1 | 36 | 350 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC119 | Field_D | 26 Oct 2023 | Soil | 1039102 | 3.6 | <0.5 | 88 | 16 | 12 | <0.1 | 44 | 50 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| RPD | | | | | 3 | 0 | 3 | 12 | 55 | 0 | 20 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| H1 | Normal | 26 Oct 2023 | Soil | 1039102 | 3.7 | <0.5 | 85 | 18 | 21 | <0.1 | 36 | 350 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC118 | Field_D | 26 Oct 2023 | Soil | 1039102 | 3.8 | <0.5 | 73 | 14 | 13 | <0.1 | 36 | 46 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| RPD | | | | | 3 | 0 | 15 | 25 | 47 | 0 | 0 | 154 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| H1 | Normal | 26 Oct 2023 | Soil | 1039102 | 3.7 | <0.5 | 85 | 18 | 21 | <0.1 | 36 | 350 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC119 | Interlab_D | 26 Oct 2023 | Soil | EB2334519 | <5 | <1 | 35 | 11 | 18 | <0.1 | 17 | 87 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 |
| RPD | | | | | 0 | 0 | 83 | 48 | 15 | 0 | 72 | 120 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| H6 | Normal | 26 Oct 2023 | Soil | 1039102 | 12 | <0.5 | 76 | 13 | 68 | 0.1 | 26 | 110 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.0 | <0.05 | <0.05 | <0.05 |
| QC115 | Interlab_D | 26 Oct 2023 | Soil | EB2334519 | <5 | <1 | 85 | 14 | <5 | <0.1 | 19 | 18 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 |
| RPD | | | | | 82 | 0 | 11 | 7 | 173 | 0 | 31 | 144 | 0 | 0 | 0 | 0 | 0 | 181 | 0 | 0 | 0 |

| | | | | | Metals | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT |
| | | | | | 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 |
| H9 | Normal | 26 Oct 2023 | Soil | 1039102 | **16** | <0.5 | **130** | **18** | **13** | <0.1 | **29** | **48** | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC115 | Field_D | 26 Oct 2023 | Soil | 1039102 | **14** | <0.5 | **140** | **15** | **9.4** | <0.1 | **33** | **46** | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| RPD | | | | | 13 | 0 | 7 | 18 | 32 | 0 | 13 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| H9 | Normal | 26 Oct 2023 | Soil | 1039102 | **16** | <0.5 | **130** | **18** | **13** | <0.1 | **29** | **48** | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC114 | Field_D | 26 Oct 2023 | Soil | 1039102 | **15** | <0.5 | **160** | **17** | <5 | <0.1 | **32** | **34** | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| RPD | | | | | 6 | 0 | 21 | 6 | **89** | 0 | 10 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HSB27 | Normal | 14 Dec 2023 | Soil | 1055969 | **5.7** | <0.5 | **79** | **19** | **22** | <0.1 | **27** | **150** | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC101 | Field_D | 14 Dec 2023 | Soil | 1055969 | **3.9** | <0.5 | **66** | **14** | **14** | <0.1 | **20** | **95** | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| RPD | | | | | 38 | 0 | 18 | 30 | 44 | 0 | 30 | **45** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HSB27 | Normal | 14 Dec 2023 | Soil | 1055969 | **5.7** | <0.5 | **79** | **19** | **22** | <0.1 | **27** | **150** | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 |
| QC102 | Interlab_D | 14 Dec 2023 | Soil | EB2340686 | **5** | <1 | **42** | **16** | **20** | <0.1 | **17** | **133** | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 |
| RPD | | | | | 13 | 0 | **61** | 17 | 10 | 0 | 45 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 50 (1 - 10 x EQL); 50 (10 - 10 x EQL); 30 ( > 10 x EQL) )
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

| | | | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Dieldrin | Endosulfan I | Endosulfan II | Endrin | Endrin aldehyde | Endrin ketone | g-BHC (Lindane) | Heptachlor | Methoxychlor | Organochlorine pesticides EPAVic | Other organochlorine pesticides EPAVic | Endosulfan | Endosulfan sulphate | Heptachlor epoxide | Hexachlorobenzene | Toxaphene | DDT+DDE+DDD |
| | | | | | 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 |
| **EQL** | | | | | **0.05** | **0.05** | **0.05** | **0.05** | **0.05** | **0.05** | **0.05** | **0.05** | **0.05** | **0.1** | **0.1** | **0.05** | **0.05** | **0.05** | **0.05** | **0.5** | **0.05** |
| **Field ID** | **Sample Type** | **Date** | **Matrix Type** | **Lab Report Number** | | | | | | | | | | | | | | | | | |
| V07_230908 | Normal | 07 Sep 2023 | Soil | 1024818 | <0.05 | **0.05** | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | **1.25** | **1.25** | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 |
| QC01 DUP | Field_D | 07 Sep 2023 | Soil | 1024818 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | **0.7** | **0.7** | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **56** | **56** | - | 0 | 0 | 0 | 0 | 0 |
| V07_230908 | Normal | 07 Sep 2023 | Soil | 1024818 | <0.05 | **0.05** | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | **1.25** | **1.25** | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 |
| QC02 TRIP | Interlab_D | 07 Sep 2023 | Soil | EB2328260 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | - | 0 |
| HS07_NW_230912 | Normal | 12 Sep 2023 | Soil | 1025750 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC03_230912 | Field_D | 12 Sep 2023 | Soil | 1025750 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | - | 0 |
| HS07_NW_230912 | Normal | 12 Sep 2023 | Soil | 1025750 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC04_230912 | Interlab_D | 12 Sep 2023 | Soil | EB2328861 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | - | 0 |
| HS10_NW_230918 | Normal | 18 Sep 2023 | Soil | 1027451 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC01-230918 | Field_D | 18 Sep 2023 | Soil | 1027451 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | - | 0 |
| HS10_NW_230918 | Normal | 18 Sep 2023 | Soil | 1027451 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC02_230918 | Interlab_D | 18 Sep 2023 | Soil | EB2329349 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RPD | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HSB03_ASH_230920 | Normal | 20 Sep 2023 | Soil | 1028239 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC06_230920 | Field_D | 20 Sep 2023 | Soil | 1028239 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | - | 0 |
| HSB03_ASH_230920 | Normal | 20 Sep 2023 | Soil | 1028239 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC 07 _230920 (TRIP) | Interlab_D | 20 Sep 2023 | Soil | EB2329798 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | - | 0 |
| TR03_TRENCH FLOOR_230921 | Normal | 21 Sep 2023 | Soil | 1029417 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC14_230921 | Field_D | 21 Sep 2023 | Soil | 1029417 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | - | 0 |
| TR03_TRENCH FLOOR_230921 | Normal | 21 Sep 2023 | Soil | 1029417 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC15_230921 | Interlab_D | 21 Sep 2023 | Soil | EB2330054 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | - | 0 |
| HSB06_ASH_231016 | Normal | 16 Oct 2023 | Soil | 1035652 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC03_DUP_231016 | Field_D | 16 Oct 2023 | Soil | 1035652 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | - | 0 |
| HSB06_ASH_231016 | Normal | 16 Oct 2023 | Soil | 1035652 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC01_DUP_231016 | Field_D | 16 Oct 2023 | Soil | 1035652 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | - | 0 |
| HSB06_ASH_231016 | Normal | 16 Oct 2023 | Soil | 1035652 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC04_Trip | Interlab_D | 16 Oct 2023 | Soil | EB2332532 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | - | 0 |
| HSB06_ASH_231016 | Normal | 16 Oct 2023 | Soil | 1035652 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC02_Trip | Interlab_D | 16 Oct 2023 | Soil | EB2332532 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | - | 0 |
| TS03_B | Normal | 18 Oct 2023 | Soil | 1036638 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 |
| QC102 | Interlab_D | 18 Oct 2023 | Soil | ES2336387 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | - | 0 |
| TS04_B | Normal | 18 Oct 2023 | Soil | 1036638 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 |
| QC101 | Field_D | 18 Oct 2023 | Soil | 1036638 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 |
| TS05_W1 | Normal | 18 Oct 2023 | Soil | 1036638 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 |
| QC103 | Field_D | 18 Oct 2023 | Soil | 1036638 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 |
| TS05_W1 | Normal | 18 Oct 2023 | Soil | 1036638 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | <0.5 | <0.05 |
| QC104 | Interlab_D | 18 Oct 2023 | Soil | ES2336387 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | - | 0 |
| A1 | Normal | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC107 | Field_D | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | - | 0 |
| A1 | Normal | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |

| | | | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Dieldrin | Endosulfan I | Endosulfan II | Endrin | Endrin aldehyde | Endrin ketone | g-BHC (Lindane) | Heptachlor | Methoxychlor | Organochlorine pesticides EPAVic | Other organochlorine pesticides EPAVic | Endosulfan | Endosulfan sulphate | Heptachlor epoxide | Hexachlorobenzene | Toxaphene | DDT+DDE+DDD |
| | | | | | 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 |
| QC106 | Field_D | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | - | 0 |
| A1 | Normal | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC107 | Interlab_D | 26 Oct 2023 | Soil | EB2334519 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | - | 0 |
| C3 | Normal | 26 Oct 2023 | Soil | 1039102 | **0.98** | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | **0.98** | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC109 | Field_D | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | **181** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **163** | 0 | - | 0 | 0 | 0 | - | 0 |
| C3 | Normal | 26 Oct 2023 | Soil | 1039102 | **0.98** | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | **0.98** | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC108 | Field_D | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | **181** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **163** | 0 | - | 0 | 0 | 0 | - | 0 |
| C3 | Normal | 26 Oct 2023 | Soil | 1039102 | **0.98** | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | **0.98** | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC109 | Interlab_D | 26 Oct 2023 | Soil | EB2334519 | **0.70** | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | **33** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | - | 0 |
| C7 | Normal | 26 Oct 2023 | Soil | 1039102 | **0.40** | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | **0.49** | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC121 | Field_D | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | **156** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **132** | 0 | - | 0 | 0 | 0 | - | 0 |
| C7 | Normal | 26 Oct 2023 | Soil | 1039102 | **0.40** | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | **0.49** | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC120 | Field_D | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | **0.15** | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | **156** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **106** | 0 | - | 0 | 0 | 0 | - | 0 |
| C7 | Normal | 26 Oct 2023 | Soil | 1039102 | **0.40** | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | **0.49** | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC121 | Interlab_D | 26 Oct 2023 | Soil | EB2334519 | **1.44** | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | **113** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | - | 0 |
| D10 | Normal | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC117 | Field_D | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | - | 0 |
| D10 | Normal | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC116 | Field_D | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | - | 0 |
| D10 | Normal | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC117 | Interlab_D | 26 Oct 2023 | Soil | EB2334519 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | - | 0 |
| E5 | Normal | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | **0.4** | **0.4** | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC111 | Field_D | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | **0.2** | **0.2** | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **67** | **67** | - | 0 | 0 | 0 | - | 0 |
| E5 | Normal | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | **0.4** | **0.4** | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC110 | Field_D | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | **0.2** | **0.2** | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **67** | **67** | - | 0 | 0 | 0 | - | 0 |
| E5 | Normal | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | **0.4** | **0.4** | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC111 | Interlab_D | 26 Oct 2023 | Soil | EB2334519 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | - | 0 |
| G7 | Normal | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | **0.4** | **0.4** | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC113 | Field_D | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | **0.2** | **0.2** | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **67** | **67** | - | 0 | 0 | 0 | - | 0 |
| G7 | Normal | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | **0.4** | **0.4** | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC112 | Field_D | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | **0.2** | **0.2** | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | **67** | **67** | - | 0 | 0 | 0 | - | 0 |
| G7 | Normal | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | **0.4** | **0.4** | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC113 | Interlab_D | 26 Oct 2023 | Soil | EB2334519 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | - | 0 |
| H1 | Normal | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC119 | Field_D | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | - | 0 |
| H1 | Normal | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC118 | Field_D | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | - | 0 |
| H1 | Normal | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC119 | Interlab_D | 26 Oct 2023 | Soil | EB2334519 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | - | 0 |
| H6 | Normal | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | **1** | **1** | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC115 | Interlab_D | 26 Oct 2023 | Soil | EB2334519 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | - | 0 |

| | | | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Dieldrin | Endosulfan I | Endosulfan II | Endrin | Endrin aldehyde | Endrin ketone | g-BHC (Lindane) | Heptachlor | Methoxychlor | Organochlorine pesticides EPAVic | Other organochlorine pesticides EPAVic | Endosulfan | Endosulfan sulphate | Heptachlor epoxide | Hexachlorobenzene | Toxaphene | DDT+DDE+DDD |
| | | | | | 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 |
| H9 | Normal | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC115 | Field_D | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | - | 0 |
| H9 | Normal | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC114 | Field_D | 26 Oct 2023 | Soil | 1039102 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | - | 0 |
| HSB27 | Normal | 14 Dec 2023 | Soil | 1055969 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC101 | Field_D | 14 Dec 2023 | Soil | 1055969 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | - | 0 |
| HSB27 | Normal | 14 Dec 2023 | Soil | 1055969 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.1 | - | <0.05 | <0.05 | <0.05 | - | <0.05 |
| QC102 | Interlab_D | 14 Dec 2023 | Soil | EB2340686 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | - | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 |
| RPD | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | - | 0 |

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 5
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any method

| | | | | | Chlordane (cis) | Chlordane (trans) |
|---|---|---|---|---|---|---|
| | | | | | mg/kg | mg/kg |
| **EQL** | | | | | **0.05** | **0.05** |
| **Field ID** | **Sample Type** | **Date** | **Matrix Type** | **Lab Report Number** | | |
| V07_230908 | Normal | 07 Sep 2023 | Soil | 1024818 | - | - |
| QC01 DUP | Field_D | 07 Sep 2023 | Soil | 1024818 | - | - |
| RPD | | | | | - | - |
| V07_230908 | Normal | 07 Sep 2023 | Soil | 1024818 | - | - |
| QC02 TRIP | Interlab_D | 07 Sep 2023 | Soil | EB2328260 | <0.05 | <0.05 |
| RPD | | | | | - | - |
| HS07_NW_230912 | Normal | 12 Sep 2023 | Soil | 1025750 | - | - |
| QC03_230912 | Field_D | 12 Sep 2023 | Soil | 1025750 | - | - |
| RPD | | | | | - | - |
| HS07_NW_230912 | Normal | 12 Sep 2023 | Soil | 1025750 | - | - |
| QC04_230912 | Interlab_D | 12 Sep 2023 | Soil | EB2328861 | <0.05 | <0.05 |
| RPD | | | | | - | - |
| HS10_NW_230918 | Normal | 18 Sep 2023 | Soil | 1027451 | - | - |
| QC01-230918 | Field_D | 18 Sep 2023 | Soil | 1027451 | - | - |
| RPD | | | | | - | - |
| HS10_NW_230918 | Normal | 18 Sep 2023 | Soil | 1027451 | - | - |
| QC02_230918 | Interlab_D | 18 Sep 2023 | Soil | EB2329349 | - | - |
| RPD | | | | | - | - |
| HSB03_ASH_230920 | Normal | 20 Sep 2023 | Soil | 1028239 | - | - |
| QC06_230920 | Field_D | 20 Sep 2023 | Soil | 1028239 | - | - |
| RPD | | | | | - | - |
| HSB03_ASH_230920 | Normal | 20 Sep 2023 | Soil | 1028239 | - | - |
| QC 07 _230920 (TRIP) | Interlab_D | 20 Sep 2023 | Soil | EB2329798 | <0.05 | <0.05 |
| RPD | | | | | - | - |
| TR03_TRENCH FLOOR_230921 | Normal | 21 Sep 2023 | Soil | 1029417 | - | - |
| QC14_230921 | Field_D | 21 Sep 2023 | Soil | 1029417 | - | - |
| RPD | | | | | - | - |
| TR03_TRENCH FLOOR_230921 | Normal | 21 Sep 2023 | Soil | 1029417 | - | - |
| QC15_230921 | Interlab_D | 21 Sep 2023 | Soil | EB2330054 | <0.05 | <0.05 |
| RPD | | | | | - | - |
| HSB06_ASH_231016 | Normal | 16 Oct 2023 | Soil | 1035652 | - | - |
| QC03_DUP_231016 | Field_D | 16 Oct 2023 | Soil | 1035652 | - | - |
| RPD | | | | | - | - |
| HSB06_ASH_231016 | Normal | 16 Oct 2023 | Soil | 1035652 | - | - |
| QC01_DUP_231016 | Field_D | 16 Oct 2023 | Soil | 1035652 | - | - |
| RPD | | | | | - | - |
| HSB06_ASH_231016 | Normal | 16 Oct 2023 | Soil | 1035652 | - | - |
| QC04_Trip | Interlab_D | 16 Oct 2023 | Soil | EB2332532 | <0.05 | <0.05 |
| RPD | | | | | - | - |
| HSB06_ASH_231016 | Normal | 16 Oct 2023 | Soil | 1035652 | - | - |
| QC02_Trip | Interlab_D | 16 Oct 2023 | Soil | EB2332532 | <0.05 | <0.05 |
| RPD | | | | | - | - |
| TS03_B | Normal | 18 Oct 2023 | Soil | 1036638 | - | - |
| QC102 | Interlab_D | 18 Oct 2023 | Soil | ES2336387 | <0.05 | <0.05 |
| RPD | | | | | - | - |
| TS04_B | Normal | 18 Oct 2023 | Soil | 1036638 | - | - |
| QC101 | Field_D | 18 Oct 2023 | Soil | 1036638 | - | - |
| RPD | | | | | - | - |
| TS05_W1 | Normal | 18 Oct 2023 | Soil | 1036638 | - | - |
| QC103 | Field_D | 18 Oct 2023 | Soil | 1036638 | - | - |
| RPD | | | | | - | - |
| TS05_W1 | Normal | 18 Oct 2023 | Soil | 1036638 | - | - |
| QC104 | Interlab_D | 18 Oct 2023 | Soil | ES2336387 | <0.05 | <0.05 |
| RPD | | | | | - | - |
| A1 | Normal | 26 Oct 2023 | Soil | 1039102 | - | - |
| QC107 | Field_D | 26 Oct 2023 | Soil | 1039102 | - | - |
| RPD | | | | | - | - |
| A1 | Normal | 26 Oct 2023 | Soil | 1039102 | - | - |

| | | | | | Chlordane (cis) | Chlordane (trans) |
|---|---|---|---|---|---|---|
| | | | | | mg/kg | mg/kg |
| QC106 | Field_D | 26 Oct 2023 | Soil | 1039102 | - | - |
| RPD | | | | | - | - |
| A1 | Normal | 26 Oct 2023 | Soil | 1039102 | - | - |
| QC107 | Interlab_D | 26 Oct 2023 | Soil | EB2334519 | <0.05 | <0.05 |
| RPD | | | | | - | - |
| C3 | Normal | 26 Oct 2023 | Soil | 1039102 | - | - |
| QC109 | Field_D | 26 Oct 2023 | Soil | 1039102 | - | - |
| RPD | | | | | - | - |
| C3 | Normal | 26 Oct 2023 | Soil | 1039102 | - | - |
| QC108 | Field_D | 26 Oct 2023 | Soil | 1039102 | - | - |
| RPD | | | | | - | - |
| C3 | Normal | 26 Oct 2023 | Soil | 1039102 | - | - |
| QC109 | Interlab_D | 26 Oct 2023 | Soil | EB2334519 | <0.05 | <0.05 |
| RPD | | | | | - | - |
| C7 | Normal | 26 Oct 2023 | Soil | 1039102 | - | - |
| QC121 | Field_D | 26 Oct 2023 | Soil | 1039102 | - | - |
| RPD | | | | | - | - |
| C7 | Normal | 26 Oct 2023 | Soil | 1039102 | - | - |
| QC120 | Field_D | 26 Oct 2023 | Soil | 1039102 | - | - |
| RPD | | | | | - | - |
| C7 | Normal | 26 Oct 2023 | Soil | 1039102 | - | - |
| QC121 | Interlab_D | 26 Oct 2023 | Soil | EB2334519 | **0.09** | **0.12** |
| RPD | | | | | - | - |
| D10 | Normal | 26 Oct 2023 | Soil | 1039102 | - | - |
| QC117 | Field_D | 26 Oct 2023 | Soil | 1039102 | - | - |
| RPD | | | | | - | - |
| D10 | Normal | 26 Oct 2023 | Soil | 1039102 | - | - |
| QC116 | Field_D | 26 Oct 2023 | Soil | 1039102 | - | - |
| RPD | | | | | - | - |
| D10 | Normal | 26 Oct 2023 | Soil | 1039102 | - | - |
| QC117 | Interlab_D | 26 Oct 2023 | Soil | EB2334519 | <0.05 | <0.05 |
| RPD | | | | | - | - |
| E5 | Normal | 26 Oct 2023 | Soil | 1039102 | - | - |
| QC111 | Field_D | 26 Oct 2023 | Soil | 1039102 | - | - |
| RPD | | | | | - | - |
| E5 | Normal | 26 Oct 2023 | Soil | 1039102 | - | - |
| QC110 | Field_D | 26 Oct 2023 | Soil | 1039102 | - | - |
| RPD | | | | | - | - |
| E5 | Normal | 26 Oct 2023 | Soil | 1039102 | - | - |
| QC111 | Interlab_D | 26 Oct 2023 | Soil | EB2334519 | **0.30** | **0.35** |
| RPD | | | | | - | - |
| G7 | Normal | 26 Oct 2023 | Soil | 1039102 | - | - |
| QC113 | Field_D | 26 Oct 2023 | Soil | 1039102 | - | - |
| RPD | | | | | - | - |
| G7 | Normal | 26 Oct 2023 | Soil | 1039102 | - | - |
| QC112 | Field_D | 26 Oct 2023 | Soil | 1039102 | - | - |
| RPD | | | | | - | - |
| G7 | Normal | 26 Oct 2023 | Soil | 1039102 | - | - |
| QC113 | Interlab_D | 26 Oct 2023 | Soil | EB2334519 | **0.34** | **0.38** |
| RPD | | | | | - | - |
| H1 | Normal | 26 Oct 2023 | Soil | 1039102 | - | - |
| QC119 | Field_D | 26 Oct 2023 | Soil | 1039102 | - | - |
| RPD | | | | | - | - |
| H1 | Normal | 26 Oct 2023 | Soil | 1039102 | - | - |
| QC118 | Field_D | 26 Oct 2023 | Soil | 1039102 | - | - |
| RPD | | | | | - | - |
| H1 | Normal | 26 Oct 2023 | Soil | 1039102 | - | - |
| QC119 | Interlab_D | 26 Oct 2023 | Soil | EB2334519 | <0.05 | <0.05 |
| RPD | | | | | - | - |
| H6 | Normal | 26 Oct 2023 | Soil | 1039102 | - | - |
| QC115 | Interlab_D | 26 Oct 2023 | Soil | EB2334519 | <0.05 | <0.05 |
| RPD | | | | | - | - |

| | | | | | Chlordane (cis) | Chlordane (trans) |
|---|---|---|---|---|---|---|
| | | | | | mg/kg | mg/kg |
| H9 | Normal | 26 Oct 2023 | Soil | 1039102 | - | - |
| QC115 | Field_D | 26 Oct 2023 | Soil | 1039102 | - | - |
| RPD | | | | | - | - |
| H9 | Normal | 26 Oct 2023 | Soil | 1039102 | - | - |
| QC114 | Field_D | 26 Oct 2023 | Soil | 1039102 | - | - |
| RPD | | | | | - | - |
| HSB27 | Normal | 14 Dec 2023 | Soil | 1055969 | - | - |
| QC101 | Field_D | 14 Dec 2023 | Soil | 1055969 | - | - |
| RPD | | | | | - | - |
| HSB27 | Normal | 14 Dec 2023 | Soil | 1055969 | - | - |
| QC102 | Interlab_D | 14 Dec 2023 | Soil | EB2340686 | <0.05 | <0.05 |
| RPD | | | | | - | - |

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 5
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any method

# APPENDIX G: DQO/DQIS

As stated in Section 18 Appendix B of Schedule B2 of the ASC NEPM, the DQO process is a seven-step iterative planning approach used to define the type, quantity and quality of data needed to support decisions relating to the environmental condition of a site.

The seven-step DQO process adopted for the validation of remediation based on the RAP included in Appendix K is summarised in the following table.

## G.1 DATA QUALITY OBJECTIVES

| | |
|---|---|
| **1. State the problem** | The primary objectives for the remediation of the Site is to remove contamination such that the Site can be removed from the EMR.<br>Remediation is required to remove the Site from the EMR and will include:<br>• the removal of OCP impacted soil materials which exceed the Remediation Criteria<br>• the removal of fill materials from the Site.<br>Validation of the Site is required to confirm that the remediation objectives have been achieved. The main problems are:<br>• What areas require remediation?<br>• How should site soils be validated?<br>• What validation sampling density should be used?<br>• What contaminants should be analysed for? |
| **2. Identify the decision** | Is the data suitable for assessing whether the areas requiring remediation have been remediated?<br>Is the Site suitable for the proposed land uses? |
| **3. Identify inputs to the decision** | The primary inputs to assessing the above include:<br>• Previous investigations (where applicable)<br>• Field observations including the presence of Unsuitable Fill Materials<br>• Analytical data of validation sample media, and quality assurance / quality control (QA/QC) samples<br>• Data quality protocols<br>• Remediation criteria (refer to Section 7.3). |
| **4. Define the boundaries of the study** | The boundaries for the validation sampling program are identified as follows:<br>• Spatial Boundaries: Lot 123 on RP46047, Lot 124 on RP46047, and Lot 125 on RP46047.<br>• Temporal boundaries: The status of the sampling points at the time of the investigation.<br>• The vertical study boundary will be the finished floor level of excavation from which validation samples were collected. |
| **5. Develop a decision rule** | The decision rules to be applied to validation include:<br>For OCPs in soil, the following approach is to be adopted: |

| | |
|---|---|
| | • Where OCPs concentrations for each sample are below the adopted remediation criteria, no further remediation is required.<br>• Where soil contaminant concentrations are reported to exceed the adopted remediation criteria the following additional steps will be undertaken:<br>– Review and modification of the Tier 1 HIL-A NEPM assessment criteria as appropriate.<br>– Where sufficient data is available, calculate the 95% Upper Confidence Level of the mean (95%UCL), data range and standard deviation.<br>– Where the 95% UCLs are less than the assessment criteria and no individual results in the data set are to be greater than 250% of the assessment criteria; and the standard deviation of the data set is to be within 50% of the assessment criteria, no further remediation is required.<br>– Where the 95% UCL is more than the assessment criteria, consider these results in the context of the current CSM to evaluate whether there are plausible pollutant linkages remaining.<br>– If plausible pollutant linkages are identified, then further remediation should be undertaken to remove impacted soil.<br>For fill materials, the following approach is to be adopted:<br>• A SQP who is competent in the identification of fill materials will inspect the site to confirm that these materials have been removed. |
| **6. Acceptable limits on decision error** | Decision errors are incorrect decisions caused by using data that is not representative of site conditions due to sampling or analytical error. As a result, a decision may be made that remediation/management is not needed when it is, or vice versa. There are two types of decision error:<br>• Sampling errors, which occur when the samples collected are not representative of the conditions within the investigation area; and<br>• Measurement errors, which occur during sample collection, handling, preparation, analysis and data reduction.<br>To consider whether decision errors have been made, an assessment of data quality indicators will be undertaken as described in Appendix G.2. A QA/QC assessment of the data collected is included in Appendix F. The closeness of the data to the assessment criteria will also be considered. |
| **7. Optimise the design for obtaining data** | The methodology and rationale for obtaining relevant data for validation is described in Section 8.6 of the RAP, and Section 8.9 of this Validation Report. |

## G.2 DATA QUALITY INDICATORS

Data Quality Indicators (DQIs) are used to show that the DQOs have been met. DQIs for the project are based on the field and laboratory considerations in Section 19.6 of ASC NEPM 2013 Schedule B2 Appendix B, which include:

- Completeness – a measure of the amount of useable data (expressed as %) from a data collection activity.
- Comparability – the confidence (expressed qualitatively) that data may be considered to be equivalent for each sampling and analytical event.
- Representativeness – the confidence (expressed qualitatively) that data are representative of each media present on the Site.
- Precision – A quantitative measure of the variability (or reproducibility) of data.
- Accuracy – a quantitative measure of the closeness of reported data to the true value; and
- The QA review will include a check of performance against the DQIs.

The DQIs adopted for soil sampling is discussed in the following tables.

**Table A: DQI Completeness**

| DQI | Field Considerations | DQI Performance | Laboratory Considerations | DQI Performance |
|---|---|---|---|---|
| Completeness | Critical locations sampled | Samples were collected from nominated locations with no deviation from the sampling plan, without reasonable justification. | Critical samples analysed according to sampling plan. | Samples were analysed for COPC. |
| | Samples collected | Samples were collected in accordance with Tetra Tech Coffey's Standard Operating Procedures (SOPs) during the assessment. | Identified COPCs included. | As above. |
| | Standard Operating Procedures (SOPs) appropriate and complied with | No departure from Tetra Tech Coffey SOPs without reasonable justification. | Appropriate methods and LORs | Samples were analysed by NATA accredited laboratories, for the analyses to be performed and appropriate methods were used. LORs were less than assessment criteria. |
| | Experienced sampler | Experienced Tetra Tech Coffey Environmental Scientists undertook the sampling. | Sample documentation complete | Chain of custody's (COCs) were returned, signed and dated by laboratory. NATA endorsed laboratory certificates were completed in accordance with Schedule B3 of the ASC NEPM. Field logs were completed in accordance with Coffey SOPs. |

| DQI | Field Considerations | DQI Performance | Laboratory Considerations | DQI Performance |
|---|---|---|---|---|
| | Documentation correct | Samples were handled and transported under appropriate chain of custody (COC) documentation. Coffey retained original COC documentation.<br>Sample Receipt Notifications (SRN) from the laboratory were reviewed to assess that samples were received cool and in good condition. | Sample holding times were be complied with | Samples were analysed within holding times specified in Schedule B3 of the ASC NEPM. |

**Table B: DQI Comparability**

| DQI | Field Considerations | DQI Performance | Laboratory Considerations | DQI Performance |
|---|---|---|---|---|
| Comparability | Same SOPs used on each occasion | Tetra Tech Coffey SOPs were implemented. | Same sample analytical methods will be used. | The same NATA accredited laboratories were used to undertake analyses of primary, duplicate and triplicate samples collected for this study. The laboratory used the same analytical methods for each sample for each analytical parameter. |
| | Experienced sampler | Experienced Tetra Tech Coffey Environmental Scientist(s) conducted sampling. | Same sample LORs | As above |
| | Climatic conditions (temperature, rainfall, wind etc.) | Environmental scientist attempted to sample in similar climatic conditions if practicable. | Same laboratories | As above |
| | Same types of samples collected | Samples were collected in the appropriate laboratory supplied containers specific to the analyses performed. | Same units | As above |

**Table C: DQI Representativeness**

| DQI | Field Considerations | DQI Performance | Laboratory Considerations | DQI Performance |
|---|---|---|---|---|
| Representativeness | Appropriate media sampled according to sample plan | Soil samples were collected and analysed in accordance with Tetra Tech Coffey's SOPs. | Appropriate media sampled according to this plan | Collected samples were analysed by NATA accredited laboratories. |
| | All media identified in sample plan | Soil samples collected and analysed in accordance with Tetra Tech Coffey's SOPs. | - | - |
| | SOPs appropriate and complied | Tetra Tech Coffey's SOPs were be implemented. | Analysis of field duplicates | Laboratory duplicates were analysed in general accordance with ASC NEPM. Duplicate and triplicate samples collected for soil. |

**Table D: DQI Precision**

| DQI | Field Considerations | DQI Performance | Laboratory Considerations | DQI Performance |
|---|---|---|---|---|
| Precision | SOPs appropriate will be complied with | Tetra Tech Coffey's SOPs were implemented. | Analysis of laboratory duplicates | Relative Percent Differential (RPD) values for laboratory duplicates and recovery of matrix spikes were within acceptable ranges. |
| | Analysis of field duplicates | As for laboratory considerations | Analysis of field duplicates | Duplicates were analysed at a frequency set out in Appendix F.<br>RPDs were be calculated and compared to relevant acceptance criteria.<br>Tetra Tech Coffey adopted 30% for concentrations more than 10 times the LOR and 50% for concentrations less than 10 times the LOR (Standards Australia 1997). |

**Table E: DQI Accuracy**

| DQI | Field Considerations | DQI Performance | Laboratory Considerations | DQI Performance |
|---|---|---|---|---|
| Accuracy | SOP appropriate and complied with | Tetra Tech Coffey SOPs were implemented | Same sample analytical methods will be used. | The same NATA accredited laboratories were used to undertake analyses of primary, duplicate and triplicate samples collected for this study. The laboratory used the same analytical methods for each sample for each analytical parameter. |
| | Trip blanks | Trip blank sample was collected using laboratory supplied distilled water. | Trip blanks | A laboratory prepared trip blank was included for each sample set. |
| | Rinsate sample | Where reusable sampling equipment was utilised (if any) a rinsate sample was be collected using laboratory supplied distilled water.<br><br>If rinsate sampling is not completed as part of the assessment, justification will be required. | Rinsate sample | Non-detection of COPCs in rinsate sample. |
| | - | - | Laboratory duplicate and Matrix spike | RPD values for laboratory control duplicates and recovery of matrix spikes were within acceptance limits. |

# APPENDIX H: REMEDIATION CONTRACTOR INFORMATION

## H.1 WASTE DISPOSAL PERMITS

# Notice

**Environmental Protection Act 1994**

## Notice of decision to grant a soil disposal permit with conditions

*This information notice is issued by the administering authority in accordance with section 424(5) of the Environmental Protection Act 1994 (EP Act) to advise you of the decision to grant your application for a soil disposal permit, but to impose conditions on the permit, and to inform you of the reasons for the decision and your review and appeal rights.*

To: Enviropacific Services Limited
1392 Kingsford Smith Drive
Pinkenba QLD 4000
Email: mick.merriman@enviropacific.com.au
cc: ivan.neralic@tetratech.com

Reference: 101/0017235

Attention: Mick Merriman

**Dear Mr Merriman,**

**Re: Application to remove and dispose of 150m$^3$ of contaminated soil from 51-55 Headfort Street, Greenslopes, QLD 4120 (Lots 123, 124 and 125 on RP46047).**

### 1 Decision

The administering authority has considered your application received on 8 June 2023 and has decided to grant the application, but to impose conditions on the permit.

### 2 Grounds for the decision

The granting of the permit subject to the conditions imposed is consistent with the standard criteria defined in Schedule 4 of the Environmental Protection Act 1994 (EP Act).

### 3 Assessment criteria used in making the decision

In accordance with section 424(4) of the EP Act in making its decision to grant the application for disposal permit the administering authority has considered the standard criteria listed in Schedule 4 of the EP Act including:

- best practice environmental management for removal treatment and disposal of contaminated soil
- any applicable environmental protection policy
- any applicable site investigation- report or validation report or site management plan
- any applicable Commonwealth, State or local government plans, standards, agreements or requirements.

## 4 Findings as a result of the administering authority's assessment of the application

The information provided in the disposal permit application is sufficient to justify the disposal of the soil

## 5 Information considered by the administering authority in making its determination

Information provided in the application submitted by Enviropacific Services Limited and validated on 9 June 2023 including:

- Application form and supporting documentation,
- Email correspondence from the applicant, dated 22 June 2023,
- Email correspondence from Veolia Environmental Services, dated 22 June 2023 and
- Letter of acceptance provided by Veolia Environmental Services, dated 7 June 2023 stating they are willing to accept **150m$^3$** of contaminated soil from **51-55 Headfort Street, Greenslopes, QLD 4120 (Lot 123, 124 and 125 RP46047)** for ***Monocell Disposal*** at the **Ti Tree bioENERGY facility**, located at **55 Champions Way, Willowbank, QLD 4306 (Lot 3 on SP167885 & Lot 8 on RP24574)** and operating under the EA EPPR00573913.

Additional information obtained by the department:

- Monocell disposal approval letter from Waste Assessment, DES, dated 1 June 2023. Monocell disposal has been approved until **24 December 2023**.

## 6 Review and appeal details

This decision is not an original decision under the EP Act and so there are no formal review and appeal rights if you are dissatisfied with the decision made by the administering authority. If you are dissatisfied with this decision, you may make an application to the administering authority to review the decision, however, the administering authority is not required to conduct a review. You may have other legal rights and should seek legal advice.

Should you have any questions in relation to this matter, please contact Malika Kirchner from Contaminated Land on (07) 3330 6085.

| | |
|---|---|
| | 22 June 2023 |
| Signature | Date |

Bronwyn Cruse
**Department of Environment and Science**
**Delegate of the Administering Authority**
***Environmental Protection Act 1994***

**Enquiries:**
Malika Kirchner
Contaminated Land Assessment
Department of Environment and Science
Email: Malika.Kirchner@des.qld.gov.au
Ph: (07) 3330 6085

# SOIL DISPOSAL PERMIT

## *Environmental Protection Act 1994* (EP Act)

| | |
|---|---|
| **Disposal permit number:** | **SDP010002171** |
| **Commencement date:** | **23 June 2023** |
| **Expiry Date:** | **24 December 2023** |
| **Permit Holder:** | **Enviropacific Services Limited** |
| **Authorised activity:** | Removal of **150m$^3$** of contaminated soil from **51-55 Headfort Street, Greenslops, QLD 4120 (Lot 123, 124 and 125 RP46047)** for ***Monocell Disposal*** at the **Ti Tree bioENERGY Facility** (Licensed under EA EPPR00573913, Veolia Environmental Services (Australia) Pty Ltd) located at **55 Champions Way, Willowbank, QLD 4306 (Lot 3 on SP167885 & Lot 8 on RP24574).** |
| **Maximum volume:** | **150m$^3$** |

This disposal permit is subject to the conditions endorsed hereon or attached hereto in Schedule A.

| | |
|---|---|
| | 22 June 2023 |
| Signature | Date |

Bronwyn Cruse
**Department of Environment and Science**
**Delegate of the Administering Authority**
***Environmental Protection Act 1994***

**Enquiries:**
Malika Kirchner
Contaminated Land Assessment
Department of Environment and Science
Email: Malika.Kirchner@des.qld.gov.au
Ph: (07) 3330 6085

# Schedule A - Conditions

1. Records of soil removal, treatment and disposal authorised under this permit must be kept for a period of no less than seven years and be available to the administering authority by request. The information to be kept in the records must include:

   a) the quantity of material disposed; and
   b) acceptance receipts from the waste disposal/treatment facility.

2. The permit holder must provide a copy of the permit to any person acting under the permit.

3. Contaminated soil must not be released to air, land or water during excavation, loading, storage, treatment and transport of the soil in a manner that causes environmental harm.

# Notice

**Environmental Protection Act 1994**

## Notice of decision to grant a soil disposal permit with conditions

*This information notice is issued by the administering authority in accordance with section 424(5) of the Environmental Protection Act 1994 (EP Act) to advise you of the decision to grant your application for a soil disposal permit, but to impose conditions on the permit, and to inform you of the reasons for the decision and your review and appeal rights.*

To: Enviropacific Services Limited
1392 Kingsford Smith Drive
Pinkenba, QLD 4008
Email: mick.merriman@enviropacific.com.au
cc: ivan.neralic@enviropacific.com.au

Reference: 101/0017235

Attention: Mick Merriman

**Dear Mr Merriman**

**Re: Application to remove and dispose of 500m$^3$ of contaminated soil from 51-55 Headfort Street, Greenslopes, QLD 4120 (Lots 123, 124 and 125 RP46047).**

### 1 Decision

The administering authority has considered your application received on 22 June 2023 and has decided to grant the application, but to impose conditions on the permit.

### 2 Grounds for the decision

The granting of the permit subject to the conditions imposed is consistent with the standard criteria defined in Schedule 4 of the Environmental Protection Act 1994 (EP Act).

### 3 Assessment criteria used in making the decision

In accordance with section 424(4) of the EP Act in making its decision to grant the application for disposal permit the administering authority has considered the standard criteria listed in Schedule 4 of the EP Act including:

- best practice environmental management for removal treatment and disposal of contaminated soil
- any applicable environmental protection policy
- any applicable site investigation- report or validation report or site management plan
- any applicable Commonwealth, State or local government plans, standards, agreements or requirements.

## 4 Findings as a result of the administering authority's assessment of the application

The information provided in the disposal permit application is sufficient to justify the disposal of the soil.

## 5 Information considered by the administering authority in making its determination

Information provided in the application submitted by Enviropacific Services Limited and validated on 22 June 2023 including:

- Application form and supporting documentation,
- Letter of acceptance provided by BMI Group, dated 21 June 2023 stating they are willing to accept **500m$^3$** of contaminated soil from **51-55 Headfort Street, Greenslopes, QLD 4120 (Lot 123, 124 and 125 RP46047)** for ***Lined Landfill Disposal*** at the **Stapylton Resource Recovery Facility**, located at **144 Rossmanns Road, Stapylton, QLD 4207 (Lots 2 and 3 SP279441)** and operating under the EA P-EA-100287544.

## 6 Review and appeal details

This decision is not an original decision under the EP Act and so there are no formal review and appeal rights if you are dissatisfied with the decision made by the administering authority. If you are dissatisfied with this decision, you may make an application to the administering authority to review the decision, however, the administering authority is not required to conduct a review. You may have other legal rights and should seek legal advice.

Should you have any questions in relation to this matter, please contact Malika Kirchner from Contaminated Land on (07) 3330 6085.

| | |
|---|---|
| | 5 July 2023 |
| Signature | Date |

Kathrin Sherman
**Department of Environment and Science**
**Delegate of the Administering Authority**
***Environmental Protection Act 1994***

**Enquiries:**
Malika Kirchner
Contaminated Land Assessment
Department of Environment and Science
Email: Malika.Kirchner@des.qld.gov.au
Ph: (07) 3330 6085

# SOIL DISPOSAL PERMIT

## *Environmental Protection Act 1994* (EP Act)

**Disposal permit number:** **SDP010002201**

**Commencement date:** **6 July 2023**

**Expiry Date:** **5 July 2024**

**Permit Holder:** **Enviropacific Services Limited**

**Authorised activity:** Removal of **500m$^3$** of contaminated soil from **51-55 Headfort Street, Greenslopes QLD 4120 (Lot 123, 124 and 125 RP46047)** for ***Lined Landfill Disposal*** at the **Stapylton Resource Recovery Facility** (Licensed under EA P-EA-100287544), located at **144 Rossmanns Road, Stapylton, QLD 4207 (Lots 2 and 3 SP279441).**

**Maximum volume:** **500m$^3$**

This disposal permit is subject to the conditions endorsed hereon or attached hereto in Schedule A.

| | |
|---|---|
| | 5 July 2023 |
| Signature | Date |

Kathrin Sherman
**Department of Environment and Science**
**Delegate of the Administering Authority**
***Environmental Protection Act 1994***

**Enquiries:**
Malika Kirchner
Contaminated Land Assessment
Department of Environment and Science
Email: Malika.Kirchner@des.qld.gov.au
Ph: (07) 3330 6085

# Schedule A - Conditions

1. Records of soil removal, treatment and disposal authorised under this permit must be kept for a period of no less than seven years and be available to the administering authority by request. The information to be kept in the records must include:

   a) the quantity of material disposed; and
   b) acceptance receipts from the waste disposal/treatment facility.

2. The permit holder must provide a copy of the permit to any person acting under the permit.

3. Contaminated soil must not be released to air, land or water during excavation, loading, storage, treatment and transport of the soil in a manner that causes environmental harm.

# Notice

**Environmental Protection Act 1994**

## Notice of decision to grant a soil disposal permit with conditions

*This information notice is issued by the administering authority in accordance with section 424(5) of the Environmental Protection Act 1994 (EP Act) to advise you of the decision to grant your application for a soil disposal permit, but to impose conditions on the permit, and to inform you of the reasons for the decision and your review and appeal rights.*

To: Enviropacific Services Pty Ltd
1392 Kingsford Smith Drive
Pinkenba, QLD 4008
Email: mick.merriman@enviropacific.com.au
Cc: ivan.neralic@tetratech.com

Reference: 101/0017235

Attention: Mick Merriman

**Dear Mr Merriman**

**Re: Application to remove and dispose of 1,000m$^3$ of contaminated soil from 51-55 Headfort Street, Greenslopes QLD 4120 (Lots 123, 124 and 125 RP46047).**

### 1 Decision

The administering authority has considered your application received on 9 August 2023 and has decided to grant the application, but to impose conditions on the permit.

### 2 Grounds for the decision

The granting of the permit subject to the conditions imposed is consistent with the standard criteria defined in Schedule 4 of the Environmental Protection Act 1994 (EP Act).

### 3 Assessment criteria used in making the decision

In accordance with section 424(4) of the EP Act in making its decision to grant the application for disposal permit the administering authority has considered the standard criteria listed in Schedule 4 of the EP Act including:

- best practice environmental management for removal treatment and disposal of contaminated soil
- any applicable environmental protection policy
- any applicable site investigation- report or validation report or site management plan
- any applicable Commonwealth, State or local government plans, standards, agreements or requirements.

## 4 Findings as a result of the administering authority's assessment of the application

The information provided in the disposal permit application is sufficient to justify the disposal of the soil.

## 5 Information considered by the administering authority in making its determination

Information provided in the application submitted by Enviropacific Services Pty Ltd and validated on 9 August 2023 including:

- Application form and supporting documentation,
- Letter of acceptance provided by BMI Resource Recovery, dated 8 August 2023 stating they are willing to accept **1,000m$^3$** of contaminated soil from **51-55 Headfort Street, Greenslopes QLD 4120 (Lots 123, 124 and 125 RP46047)** for ***Lined Landfill Disposal*** at the **Stapylton Resource Recovery Facility**, located at **144 Rossmanns Road, Stapylton QLD 4207 (Lots 2 and 3 SP279441)** operating under the EA P-EA-100287544.

## 6 Review and appeal details

This decision is not an original decision under the EP Act and so there are no formal review and appeal rights if you are dissatisfied with the decision made by the administering authority. If you are dissatisfied with this decision, you may make an application to the administering authority to review the decision, however, the administering authority is not required to conduct a review. You may have other legal rights and should seek legal advice.

Should you have any questions in relation to this matter, please contact Allen Johns from Contaminated Land on (07) 3330 5694.

| | |
|---|---|
| | 23 August 2023 |
| Signature | Date |

Bronwyn Cruse
**Department of Environment and Science**
**Delegate of the Administering Authority**
***Environmental Protection Act 1994***

**Enquiries:**
Allen Johns
Contaminated Land Assessment
Department of Environment and Science
GPO Box 2454
Brisbane QLD 4001
Email: allen.johns@des.qld.gov.au
Ph: (07) 3330 5694

# SOIL DISPOSAL PERMIT

## *Environmental Protection Act 1994* (EP Act)

**Disposal permit number:** **SDP010002299**

**Commencement date:** **24 August 2023**

**Expiry Date:** **23 August 2024**

**Permit Holder:** **Enviropacific Services Pty Ltd**

**Authorised activity:** Removal of **1,000m$^3$** of contaminated soil from **51-55 Headfort Street, Greenslopes QLD 4120 (Lots 123, 124 and 125 RP46047)** for ***Lined Landfill Disposal*** at **Stapylton Resource Recovery Facility** (Licensed under EA P-EA-100287544, Stapylton Resource Recovery (QLD) Pty Ltd), located at **144 Rossmanns Road, Stapylton QLD 4207 (Lots 2 and 3 SP279441).**

**Maximum volume:** **1,000m$^3$**

This disposal permit is subject to the conditions endorsed hereon or attached hereto in Schedule A.

| | |
|---|---|
| | 23 August 2023 |
| Signature | Date |

Bronwyn Cruse
**Department of Environment and Science**
**Delegate of the Administering Authority**
***Environmental Protection Act 1994***

**Enquiries:**
Allen Johns
Contaminated Land Assessment
Department of Environment and Science
GPO Box 2454
Brisbane QLD 4001
Email: allen.johns@des.qld.gov.au
Ph: (07) 3330 5694

# Schedule A - Conditions

1. Records of soil removal, treatment and disposal authorised under this permit must be kept for a period of no less than seven years and be available to the administering authority by request. The information to be kept in the records must include:

   a) the quantity of material disposed; and
   b) acceptance receipts from the waste disposal/treatment facility.

2. The permit holder must provide a copy of the permit to any person acting under the permit.

3. Contaminated soil must not be released to air, land or water during excavation, loading, storage, treatment and transport of the soil in a manner that causes environmental harm.

# Certificate of Exempt Waste

***Waste Reduction and Recycling Act 2011***

## Notice of approval of waste as exempt waste (waste levy)
## Contaminated earth

*This certificate documents the granting of the approval of waste as exempt waste under section 31 of the* Waste Reduction and Recycling Act 2011*. Present this certificate to the waste disposal site operator each time the exempt waste is delivered. The operator will need to see this certificate to record the Exempt Waste Number in the gate transaction record.*
*This approval only relates to exemption from the waste levy. It does not affect requirements or conditions of any soil disposal permit or any other approval, permit or obligation under the* Environmental Protection Act 1994, *the* Waste Reduction and Recycling Act 2011, *or any other act*.

**Exempt Waste Number:** **230021CSE**

### Waste approved as exempt waste: Earth contaminated with a hazardous contaminant from land recorded in the Environmental Management Register (EMR) or Contaminated Land Register (CLR)

**Issued to:**

| | |
|---|---|
| Entity name: | **Enviropacific Services Limited** |
| ABN: | 43 111 372 064 |
| Registered address: | 1392 Kingsford-Smith Drive, Pinkenba, QLD 4008 |
| Contact name: | Ivan Neralic |
| Contact phone number: | (07) 3239 9300 |
| Contact email: | ivan.neralic@tetratech.com<br>mick.merriman@enviropacific.com |

**Exemption period:**

| | |
|---|---|
| Active from: 12 May 2023 | To: 18 May 2025 |

**The following conditions apply to the approval:**

| Condition Number | Condition |
|---|---|
| Condition 1 | The maximum weight of exempt waste must not exceed **910 tonnes** over the exemption period. |

| | |
|---|---|
| Condition 2 | The waste, approved as exempt waste under this certificate, is earth from land listed on the EMR or CLR, contaminated with a hazardous contaminant and is not mixed with any other waste, from the following site:<br>a) 114 Newdegate Street, Greenslopes, QLD 4120<br>Lot 123 on RP46047 (EMR Site ID 148512), Lot 124 on RP46047 (EMR Site ID 148513), and Lot 125 on RP46047 (EMR Site ID 148514) |
| Condition 3 | The waste, approved as exempt waste under this certificate, must be disposed of in accordance with a relevant soil disposal permit issued under the *Environmental Protection Act 1994*. |
| Condition 4 | The waste, approved as exempt waste under this certificate, must be delivered to the levyable waste disposal site[1] of the following sites:<br>a) Stapylton Resource Recovery (C203143)<br>144 Rossmanns Road, Stapylton, QLD 4207<br>b) Ti Tree Bioenergy (C114122)<br>Champions Way, Willowbank, QLD 4306 |

David Drew
Department of Environment and Science
Delegate for chief executive
*Waste Reduction and Recycling Act 2011*

Date granted: 12 May 2023

**Enquiries:**
Waste and Enforcement Services
Department of Environment and Science
Email: wastelevyapps@des.qld.gov.au

[1] Levyable waste disposal site does not include a part of the waste disposal site that is a resource recovery area, as per definition in the *Waste Reduction and Recycling Act 2011*.

## H.2 Disposal Records

**EPS Lined Landfill Disposal**

| Ticket | Date In | Time In | Date Out | Time Out | Rego | Permit | Source | Product | Order # | Gross | Tare | Net |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20295610-SR.2 | 29/08/2023 | 2:39:57 PM | 29/08/2023 | 3:01:11 PM | XQ76SD | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 24.22 | 13.92 | 10.3 |
| 20295716-SR.2 | 30/08/2023 | 8:00:09 AM | 30/08/2023 | 8:23:05 AM | XQ76SD | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 21.2 | 13.58 | 7.62 |
| 20295792-SR.2 | 30/08/2023 | 10:07:15 AM | 30/08/2023 | 10:25:26 AM | XQ76SD | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 24.46 | 13.62 | 10.84 |
| 20295869-SR.2 | 30/08/2023 | 11:59:00 AM | 30/08/2023 | 12:18:53 PM | XQ76SD | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 24.64 | 13.54 | 11.1 |
| 20295946-SR.2 | 30/08/2023 | 2:07:36 PM | 30/08/2023 | 2:07:36 PM | XQ76SD | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 24.84 | 13.02 | 11.82 |
| 20296070-SR.2 | 31/08/2023 | 8:29:12 AM | 31/08/2023 | 8:29:12 AM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 26.78 | 13.96 | 12.82 |
| 20296141-SR.2 | 31/08/2023 | 10:09:03 AM | 31/08/2023 | 10:09:03 AM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 26 | 13.96 | 12.04 |
| 20296205-SR.2 | 31/08/2023 | 11:44:00 AM | 31/08/2023 | 11:44:00 AM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 23.4 | 13.96 | 9.44 |
| 20296273-SR.2 | 31/08/2023 | 1:26:41 PM | 31/08/2023 | 1:26:41 PM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 24.92 | 13.96 | 10.96 |
| 20296397-SR.2 | 1/09/2023 | 7:37:00 AM | 1/09/2023 | 7:37:00 AM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 25.22 | 13.96 | 11.26 |
| 20296441-SR.2 | 1/09/2023 | 9:33:29 AM | 1/09/2023 | 9:33:29 AM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 26.88 | 13.96 | 12.92 |
| 20296500-SR.2 | 1/09/2023 | 11:17:08 AM | 1/09/2023 | 11:17:08 AM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 25.5 | 13.96 | 11.54 |
| 20296831-SR.2 | 4/09/2023 | 9:09:00 AM | 4/09/2023 | 9:09:00 AM | XQ76SD | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 25.4 | 13.02 | 12.38 |
| 20296862-SR.2 | 4/09/2023 | 9:59:51 AM | 4/09/2023 | 9:59:51 AM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 26.12 | 13.96 | 12.16 |
| 20296939-SR.2 | 4/09/2023 | 12:09:26 PM | 4/09/2023 | 12:09:26 PM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 25.22 | 13.96 | 11.26 |
| 20297017-SR.2 | 4/09/2023 | 1:46:10 PM | 4/09/2023 | 1:46:10 PM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 25.54 | 13.96 | 11.58 |
| 20297153-SR.2 | 5/09/2023 | 8:07:07 AM | 5/09/2023 | 8:07:07 AM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 26.5 | 13.96 | 12.54 |
| 20297208-SR.2 | 5/09/2023 | 9:52:17 AM | 5/09/2023 | 9:52:17 AM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 25.66 | 13.96 | 11.7 |
| 20297360-SR.2 | 5/09/2023 | 1:19:18 PM | 5/09/2023 | 1:19:18 PM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 26.96 | 13.96 | 13 |
| 20297435-SR.2 | 5/09/2023 | 2:55:20 PM | 5/09/2023 | 2:55:20 PM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 25.76 | 13.96 | 11.8 |
| 20297533-SR.2 | 6/09/2023 | 8:18:23 AM | 6/09/2023 | 8:18:23 AM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 25.66 | 13.96 | 11.7 |
| 20297953-SR.2 | 7/09/2023 | 9:47:24 AM | 7/09/2023 | 9:47:24 AM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 22.48 | 13.96 | 8.52 |
| 20298025-SR.2 | 7/09/2023 | 11:22:26 AM | 7/09/2023 | 11:22:26 AM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 27.24 | 13.96 | 13.28 |
| 20298080-SR.2 | 7/09/2023 | 1:10:09 PM | 7/09/2023 | 1:10:09 PM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 26.78 | 13.96 | 12.82 |
| 20298735-SR.2 | 11/09/2023 | 9:37:11 AM | 11/09/2023 | 9:37:11 AM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 27.82 | 13.96 | 13.86 |
| 20298798-SR.2 | 11/09/2023 | 11:19:30 AM | 11/09/2023 | 11:19:30 AM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 26.68 | 13.96 | 12.72 |
| 20298861-SR.2 | 11/09/2023 | 1:03:20 PM | 11/09/2023 | 1:03:20 PM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 27.14 | 13.96 | 13.18 |
| 20299085-SR.2 | 12/09/2023 | 9:15:07 AM | 12/09/2023 | 9:54:41 AM | XQ76SD | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 25.4 | 13.46 | 11.94 |
| 20299188-SR.2 | 12/09/2023 | 11:45:35 AM | 12/09/2023 | 11:45:35 AM | XQ76SD | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 25.32 | 13.02 | 12.3 |
| 20299254-SR.2 | 12/09/2023 | 1:33:27 PM | 12/09/2023 | 1:33:27 PM | XQ76SD | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 25.82 | 13.02 | 12.8 |
| 20299323-SR.2 | 12/09/2023 | 3:19:18 PM | 12/09/2023 | 3:19:18 PM | XQ76SD | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 26.44 | 13.02 | 13.42 |
| 20299386-SR.2 | 13/09/2023 | 7:29:48 AM | 13/09/2023 | 7:29:48 AM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 26.56 | 13.96 | 12.6 |
| 20299438-SR.2 | 13/09/2023 | 9:28:01 AM | 13/09/2023 | 9:28:01 AM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 27.08 | 13.96 | 13.12 |
| 20299497-SR.2 | 13/09/2023 | 10:49:34 AM | 13/09/2023 | 10:49:34 AM | XQ76SD | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 27.64 | 13.02 | 14.62 |
| 20299503-SR.2 | 13/09/2023 | 10:56:40 AM | 13/09/2023 | 10:56:40 AM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 27.66 | 13.96 | 13.7 |
| 20299578-SR.4 | 13/09/2023 | 12:47:41 PM | 13/09/2023 | 12:47:41 PM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 27.6 | 13.96 | 13.64 |
| 20299813-SR.2 | 14/09/2023 | 9:59:52 AM | 14/09/2023 | 9:59:52 AM | XQ76SD | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 29.12 | 13.02 | 16.1 |
| 20299907-SR.2 | 14/09/2023 | 12:32:47 PM | 14/09/2023 | 12:32:47 PM | XQ76SD | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 29.74 | 13.02 | 16.72 |
| 20300164-SR.2 | 15/09/2023 | 10:14:31 AM | 15/09/2023 | 10:14:31 AM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 27.5 | 13.96 | 13.54 |
| 20300232-SR.2 | 15/09/2023 | 11:52:28 AM | 15/09/2023 | 11:52:28 AM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 28.7 | 13.96 | 14.74 |
| 20300316-SR.2 | 15/09/2023 | 2:03:48 PM | 15/09/2023 | 2:03:48 PM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 26.6 | 13.96 | 12.64 |
| 20300955-SR.2 | 19/09/2023 | 9:39:17 AM | 19/09/2023 | 9:39:17 AM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 27.14 | 13.96 | 13.18 |
| 20301033-SR.2 | 19/09/2023 | 11:17:40 AM | 19/09/2023 | 11:17:40 AM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 27.88 | 13.96 | 13.92 |
| 20301139-SR.2 | 19/09/2023 | 1:23:44 PM | 19/09/2023 | 1:23:44 PM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 28.16 | 13.96 | 14.2 |
| 20301340-SR.2 | 20/09/2023 | 8:31:44 AM | 20/09/2023 | 8:31:44 AM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 27.62 | 13.96 | 13.66 |
| 20301424-SR.2 | 20/09/2023 | 10:21:50 AM | 20/09/2023 | 10:21:50 AM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 29 | 13.96 | 15.04 |
| 20301784-SR.2 | 21/09/2023 | 8:52:49 AM | 21/09/2023 | 8:52:49 AM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 30.24 | 13.96 | 16.28 |
| 20301873-SR.2 | 21/09/2023 | 10:50:41 AM | 21/09/2023 | 10:50:41 AM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 28.4 | 13.96 | 14.44 |
| 20301969-SR.2 | 21/09/2023 | 12:33:37 PM | 21/09/2023 | 12:33:37 PM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 28.98 | 13.96 | 15.02 |
| 20302168-SR.2 | 22/09/2023 | 7:29:07 AM | 22/09/2023 | 7:29:07 AM | XQ76SD | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 27.36 | 13.02 | 14.34 |
| 20302278-SR.2 | 22/09/2023 | 9:57:23 AM | 22/09/2023 | 9:57:23 AM | XQ76SD | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 26.48 | 13.02 | 13.46 |
| 20302850-SR.2 | 25/09/2023 | 9:39:52 AM | 25/09/2023 | 9:39:52 AM | XQ76SD | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 26.82 | 13.02 | 13.8 |
| 20302946-SR.2 | 25/09/2023 | 11:30:11 AM | 25/09/2023 | 11:30:11 AM | XQ76SD | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 26.72 | 13.02 | 13.7 |
| 20303087-SR.2 | 25/09/2023 | 2:07:44 PM | 25/09/2023 | 2:07:44 PM | XQ76SD | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 28.5 | 13.02 | 15.48 |
| 20306064-SR.2 | 6/10/2023 | 8:28:02 AM | 6/10/2023 | 8:28:02 AM | XQ26YO | SDP010002201 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 25.1 | 13.96 | 11.14 |
| 20303246-SR.4 | 26/09/2023 | 7:36:20 AM | 26/09/2023 | 7:36:20 AM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10704332 | 31.28 | 14.34 | 16.94 |
| 20303323-SR.4 | 26/09/2023 | 9:33:50 AM | 26/09/2023 | 9:33:50 AM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10704332 | 31.04 | 14.34 | 16.7 |
| 20303808-SR.4 | 27/09/2023 | 12:16:44 PM | 27/09/2023 | 12:16:44 PM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10704332 | 28.82 | 14.34 | 14.48 |
| 20304083-SR.4 | 28/09/2023 | 10:44:00 AM | 28/09/2023 | 10:44:00 AM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10704332 | 26.02 | 13.96 | 12.06 |
| 20304158-SR.4 | 28/09/2023 | 12:33:56 PM | 28/09/2023 | 12:33:56 PM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10704332 | 25.76 | 13.96 | 11.8 |
| 20304225-SR.4 | 28/09/2023 | 2:37:07 PM | 28/09/2023 | 2:37:07 PM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10704332 | 27.04 | 13.96 | 13.08 |
| 20304356-SR.4 | 29/09/2023 | 9:51:36 AM | 29/09/2023 | 9:51:36 AM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10704332 | 27.86 | 13.96 | 13.9 |
| 20304435-SR.4 | 29/09/2023 | 12:09:07 PM | 29/09/2023 | 12:09:07 PM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10704332 | 24.6 | 13.96 | 10.64 |
| 20304807-SR.4 | 3/10/2023 | 9:28:01 AM | 3/10/2023 | 9:28:01 AM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10704332 | 27.46 | 13.96 | 13.5 |
| 20304879-SR.4 | 3/10/2023 | 11:08:25 AM | 3/10/2023 | 11:08:25 AM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10704332 | 28 | 13.96 | 14.04 |
| 20304946-SR.6 | 3/10/2023 | 12:55:35 PM | 3/10/2023 | 12:55:35 PM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10704332 | 24.32 | 13.96 | 10.36 |
| 20305312-SR.4 | 4/10/2023 | 11:34:14 AM | 4/10/2023 | 11:34:14 AM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10704332 | 27.96 | 13.96 | 14 |
| 20305393-SR.4 | 4/10/2023 | 1:19:27 PM | 4/10/2023 | 1:19:27 PM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10704332 | 28.14 | 13.96 | 14.18 |
| 20305743-SR.4 | 5/10/2023 | 11:16:32 AM | 5/10/2023 | 11:16:32 AM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10704332 | 28.3 | 13.96 | 14.34 |
| 20305822-SR.4 | 5/10/2023 | 12:55:27 PM | 5/10/2023 | 12:55:27 PM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10704332 | 26.24 | 13.96 | 12.28 |
| 20305901-SR.4 | 5/10/2023 | 2:42:24 PM | 5/10/2023 | 2:42:24 PM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10704332 | 28.96 | 13.96 | 15 |
| 20306151-SR.2 | 6/10/2023 | 10:14:37 AM | 6/10/2023 | 10:14:37 AM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 24.44 | 13.96 | 10.48 |

**EPS Lined Landfill Disposal**

| Ticket | Date In | Time In | Date Out | Time Out | Rego | Permit | Source | Product | Order # | Gross | Tare | Net |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20306235-SR.2 | 6/10/2023 | 11:46:22 AM | 6/10/2023 | 11:46:22 AM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 27.26 | 13.96 | 13.3 |
| 20306700-SR.2 | 9/10/2023 | 9:54:56 AM | 9/10/2023 | 9:54:56 AM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 30.28 | 13.96 | 16.32 |
| 20307996-SR.2 | 12/10/2023 | 10:31:26 AM | 12/10/2023 | 10:31:26 AM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 29.88 | 13.96 | 15.92 |
| 20308095-SR.2 | 12/10/2023 | 12:17:42 PM | 12/10/2023 | 12:17:42 PM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 29.02 | 14.34 | 14.68 |
| 20308459-SR.2 | 13/10/2023 | 10:04:14 AM | 13/10/2023 | 10:04:14 AM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 28.94 | 13.96 | 14.98 |
| 20308577-SR.2 | 13/10/2023 | 12:20:17 PM | 13/10/2023 | 12:20:17 PM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 28.7 | 13.96 | 14.74 |
| 20308940-SR.2 | 16/10/2023 | 9:04:30 AM | 16/10/2023 | 9:04:30 AM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 28.4 | 13.96 | 14.44 |
| 20309013-SR.2 | 16/10/2023 | 10:37:49 AM | 16/10/2023 | 10:37:49 AM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 29.1 | 13.96 | 15.14 |
| 20309120-SR.2 | 16/10/2023 | 12:44:43 PM | 16/10/2023 | 12:44:43 PM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 28.2 | 13.96 | 14.24 |
| 20309225-SR.2 | 16/10/2023 | 2:52:29 PM | 16/10/2023 | 2:52:29 PM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 28.66 | 13.96 | 14.7 |
| 20309747-SR.2 | 17/10/2023 | 4:08:20 PM | 17/10/2023 | 4:08:20 PM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 27.52 | 13.96 | 13.56 |
| 20310503-SR.2 | 19/10/2023 | 8:43:10 AM | 19/10/2023 | 8:43:10 AM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 27.38 | 13.96 | 13.42 |
| 20310608-SR.2 | 19/10/2023 | 10:25:34 AM | 19/10/2023 | 10:25:34 AM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 27.5 | 13.96 | 13.54 |
| 20310722-SR.2 | 19/10/2023 | 12:14:03 PM | 19/10/2023 | 12:14:03 PM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 28.72 | 13.96 | 14.76 |
| 20310870-SR.2 | 19/10/2023 | 2:47:09 PM | 19/10/2023 | 2:47:09 PM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 28.48 | 13.96 | 14.52 |
| 20311710-SR.2 | 23/10/2023 | 11:12:18 AM | 23/10/2023 | 11:12:18 AM | XQ76SD | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | | 28.1 | 13.02 | 15.08 |
| 20311804-SR.2 | 23/10/2023 | 1:12:58 PM | 23/10/2023 | 1:12:58 PM | XQ76SD | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | | 27.02 | 13.02 | 14 |
| 20311909-SR.2 | 23/10/2023 | 2:57:11 PM | 23/10/2023 | 2:57:11 PM | XQ76SD | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | | 26.82 | 13.02 | 13.8 |
| 20312330-SR.2 | 24/10/2023 | 1:51:57 PM | 24/10/2023 | 1:51:57 PM | XQ76SD | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | | 27.48 | 13.02 | 14.46 |
| 20312543-SR.2 | 25/10/2023 | 9:02:47 AM | 25/10/2023 | 9:02:47 AM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10703788 | 17.24 | 13.96 | 3.28 |
| 140007831-SR.2 | 18/12/2023 | 9:50:45 AM | 18/12/2023 | 9:50:45 AM | XQ26YO | SDP010002299 | EX: Greenslopes | CONTAMINATED SOIL LEVY EXEMPT | 10704332 | 23.78 | 14.34 | 9.44 |

Total Disposed Under SDP010002201: 704.7
Total Disposed Under SDP010002299: 516.1

**EPS Monocell Disposal**

| Ticket No (Landfill Docket No.) | Vehicle | Date | Qty (tonnes) | Vol. (m3) | Disposal Permit Number |
|---|---|---|---|---|---|
| 1420492644 | XQ 79 MA | 6/09/2023 | 4.02 | 2.68 | SDP010002171 |
| 1420495312 | XQ 55 YO | 21/09/2023 | 5.9 | 3.93 | SDP010002171 |
| 1420496620 | XQ 26 YO | 29/09/2023 | 15.34 | 10.23 | SDP010002171 |
| 1420498602 | XQ 26 YO | 11/10/2023 | 17.68 | 11.79 | SDP010002171 |
| 1420498659 | XQ 26 YO | 11/10/2023 | 13.16 | 8.77 | SDP010002171 |
| 1420499076 | XQ 26 YO | 13/10/2023 | 13.12 | 8.75 | SDP010002171 |
| 1420500378 | XQ 26 YO | 20/10/2023 | 13.42 | 8.95 | SDP010002171 |
| 1420500433 | XQ 26 YO | 20/10/2023 | 15.48 | 10.32 | SDP010002171 |
| 1420500502 | XQ 26 YO | 20/10/2023 | 13.96 | 9.31 | SDP010002171 |
| 1420500675 | XQ 26 YO | 23/10/2023 | 13.94 | 9.29 | SDP010002171 |
| 1420500723 | XQ 26 YO | 23/10/2023 | 13.24 | 8.83 | SDP010002171 |
| 1420500773 | XQ 26 YO | 23/10/2023 | 14.14 | 9.43 | SDP010002171 |
| 1420501022 | XQ 26 YO | 24/10/2023 | 15.02 | 10.01 | SDP010002171 |
| 1420500945 | XQ 26 YO | 24/10/2023 | 10.22 | 6.81 | SDP010002171 |
| | | **Total** | **178.64** | **119.09** | |

Note 1: Volume estimate based on EPS assumed bulk density of 1.5 tonnes/m3

## H.3 Imported Fill Records

# Boral Petrie Quarry

A product of Queensland Globe

Legend located on next page

N

0 250 metres

Scale: 1:8415

Printed at: A3

Print date: 19/2/2024

Not suitable for accurate measurement.

**Projection:** Web Mercator EPSG 102100 (3857)

For more information, visit https://qldglobe.information.qld.gov.au/help-info/Contact-us.html

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Queensland Government

Department of Resources

# Boral Petrie Quarry

## Legend

### Land parcel

Parcel

### Land parcel - gt 1 ha

Parcel

### Land parcel - gt 10 ha

Parcel

### Land parcel - gt 1000 ha

Parcel

### Land parcel label

### Land parcel label - gt 1 ha

### Land parcel label - gt 10 ha

### Land parcel label - gt 1000 ha

### Places: Search Results

29S311167
2RP208504
1CP846007

### Cities and Towns

### Roads and tracks

Motorway
Highway
Secondary
Connector
Local
Restricted Access Road
Mall
Busway
Bikeway
Restricted Access Bikeway
Walkway
Restricted Access Walkway
Non-vehicular Track
Track
Restricted Access Track
Ferry
Proposed Thoroughfare

### Green bridges

### Bridges

### Tunnels

### Railway

### Railway station

## Attribution

MBRC, Maxar

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Department of Environment and Science (DES)
ABN 46 640 294 485
400 George St Brisbane, Queensland 4000
GPO Box 2454, Brisbane QLD 4001, AUSTRALIA
www.des.qld.gov.au

# SEARCH RESPONSE

ENVIRONMENTAL MANAGEMENT REGISTER (EMR)
CONTAMINATED LAND REGISTER (CLR)

Megan Thomson
5/120 Edward Street, Brisbane, 4000
Brisbane QLD 4000

Transaction ID: 50900372 EMR Site Id: 70903 20 November 2023
Client Reference:
Cheque Number:

This response relates to a search request received for the site:
Lot: 2 Plan: RP208504

## EMR RESULT

The above site IS included on the Environmental Management Register.
Lot: 2 Plan: RP208504
Address: DAYBORO RD
WHITESIDE QLD 4503

The site has been subject to the following Notifiable Activity or Hazardous Contaminant.
PETROLEUM PRODUCT OR OIL STORAGE - storing petroleum products or oil -
(a) in underground tanks with more than 200L capacity; or
(b) in above ground tanks with -
(i) for petroleum products or oil in class 3 in packaging groups 1 and 2 of the dangerous goods code - more than 2, 500L capacity; or
(ii) for petroleum products or oil in class 3 in packaging groups 3 of the dangerous goods code - more than 5, 000L capacity; or
(iii) for petroleum products that are combustible liquids in class C1 or C2 in Australian Standard AS1940, 'The storage and handling of flammable and combustible liquids' published by Standards Australia - more than 25, 000L capacity.

## CLR RESULT

The above site is NOT included on the Contaminated Land Register.

## ADDITIONAL ADVICE

All search responses include particulars of land listed in the EMR/CLR when the search was generated.
The EMR/CLR does NOT include:-

1. land which is contaminated land (or a complete list of contamination) if DES has not been notified
2. land on which a notifiable activity is being or has been undertaken (or a complete list of activities) if DES has not been notified

If you have any queries in relation to this search please email emr.clr.registry@des.qld.gov.au

**Administering Authority**

Department of Environment and Science (DES)
ABN 46 640 294 485
400 George St Brisbane, Queensland 4000
GPO Box 2454, Brisbane QLD 4001, AUSTRALIA
www.des.qld.gov.au

# SEARCH RESPONSE

ENVIRONMENTAL MANAGEMENT REGISTER (EMR)
CONTAMINATED LAND REGISTER (CLR)

Megan Thomson
5/120 Edward Street, Brisbane, 4000
Brisbane QLD 4000

Transaction ID: 50900371 EMR Site Id: 20 November 2023
Cheque Number:
Client Reference:

This response relates to a search request received for the site:
Lot: 1 Plan: CP846007
DAYBORO RD
WHITESIDE

## EMR RESULT

The above site is NOT included on the Environmental Management Register.

## CLR RESULT

The above site is NOT included on the Contaminated Land Register.

## ADDITIONAL ADVICE

All search responses include particulars of land listed in the EMR/CLR when the search was generated.
The EMR/CLR does NOT include:-

1. land which is contaminated land (or a complete list of contamination) if DES has not been notified
2. land on which a notifiable activity is being or has been undertaken (or a complete list of activities) if DES has not been notified

If you have any queries in relation to this search please email emr.clr.registry@des.qld.gov.au

**Administering Authority**

Department of Environment and Science (DES)
ABN 46 640 294 485
400 George St Brisbane, Queensland 4000
GPO Box 2454, Brisbane QLD 4001, AUSTRALIA
www.des.qld.gov.au

# SEARCH RESPONSE

ENVIRONMENTAL MANAGEMENT REGISTER (EMR)
CONTAMINATED LAND REGISTER (CLR)

Megan Thomson
5/120 Edward Street, Brisbane, 4000
Brisbane QLD 4000

Transaction ID: 50900370 EMR Site Id: 20 November 2023
Cheque Number:
Client Reference:

This response relates to a search request received for the site:
Lot: 29 Plan: S311167
ADSETTS RD
WHITESIDE

## EMR RESULT

The above site is NOT included on the Environmental Management Register.

## CLR RESULT

The above site is NOT included on the Contaminated Land Register.

## ADDITIONAL ADVICE

All search responses include particulars of land listed in the EMR/CLR when the search was generated.
The EMR/CLR does NOT include:-

1. land which is contaminated land (or a complete list of contamination) if DES has not been notified
2. land on which a notifiable activity is being or has been undertaken (or a complete list of activities) if DES has not been notified

If you have any queries in relation to this search please email emr.clr.registry@des.qld.gov.au

**Administering Authority**

ENVIROPACIFIC

| Project Name: DVA Greenslopes Hospital | Project No: 107 143 | Date: 11/09/2023 | Material Type | | | | |
|---|---|---|---|---|---|---|---|
| Import Source: Boral Resources P/L | Destination on Site: 114 Newdegate St, Greenslopes QLD | | VENM X | ENM ☐ | CRUSHED CONCRETE ☐ | GRAVEL ☐ | ROADBASE ☐ |
| Date/Day: Monday 11/09/2023 | Materials Classification / Approvals obtained: Yes | | CONCRETE ☐ | CEMENT ☐ | FLYASH ☐ | ASHPALT ☐ | OTHER ☐ _____ |

| TRUCK DETAILS | | | NETT LOAD WEIGHT | | | | | | | | | | | | | | | | TOTAL TONNAGE ESTIMATE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No | Truck Rego. | Date | Signed Truck Driver Induction Y/N? | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | | |
| 1 | 469 XAX | 11/09/2023 | Y | 13.72 | 13.64 | | | | | | | | | | | | | | 27.36 |
| 2 | XQ7 5AZ | 11/09/2023 | Y | 13.8 | 13.94 | | | | | | | | | | | | | | 27.74 |
| 3 | XQ7 5AZ | 12/09/2023 | Y | 13.94 | 13.66 | | | | | | | | | | | | | | 27.6 |
| 4 | 469 XAX | 12/09/2023 | Y | 13.14 | | | | | | | | | | | | | | | 13.14 |
| 5 | XQ7 5AZ | 18/09/2023 | Y | 13.64 | 13.84 | | | | | | | | | | | | | | 27.48 |
| 6 | XQ7 5AZ | 19/09/2023 | Y | 14.24 | | | | | | | | | | | | | | | 14.24 |
| 7 | 469 XAX | 19/09/2023 | Y | 13.7 | | | | | | | | | | | | | | | 13.7 |
| 8 | XQ7 5AZ | 12/10/2023 | Y | 14 | 13.82 | | | | | | | | | | | | | | 27.82 |
| 9 | XB41IG | 12/10/2023 | Y | 18.68 | | | | | | | | | | | | | | | 18.68 |
| 10 | XQ7 5AZ | 24/10/2023 | Y | 13.78 | 13.68 | | | | | | | | | | | | | | 27.46 |
| | | | | | | | | | | | | | | | | | | TOTAL | 225.22 |

Boral Quarries
Boral Resources (Qld) Pty Ltd
ABN 46 009 671 809
2/159 Coronation Drive Milton 4064
PO Box 1278 Stafford 4053
Tel 1300 305 978
Fax (07) 3285 3996

**Docket No.** 14161044

Plant: PETRIE
645 Dayboro Road
Time In - Out: 24/10/2023 12:06:41PM - 12:15:50PM
External Ref:

Customer: 456020 ENVIROPACIFIC SERVICES PT LTD

Cust Ref: 10703878
Sales Order: Q-00168043 Greenslopes - Newdegate st
Despatch #: 616767 Qty
Product 133252: 26.5MM TYPE 2.3C MRTS06 13.68 t
Lot No.: 30911
Oth Chgs: ENVIRONMENT MANAGE 13.68 t
SO Qty: 1.00t Shpd Qty: 211.44 t
DO Qty: 32.00t Shpd Qty: 13.68 t

Delivery Address: 114 Newdegate St Greenslopes, QLD
Map Ref: Kms 38
Vehicle: Q3085 XQ75AZ TRUCK
Delivery Instructs: SEAN 0457 420 060 CALL ON APPROACH

| | Qty | Rate | Amount |
|---|---|---|---|
| Product | 13.68 t | | |
| Other | | | |
| CC Fee | | | |
| GST | | | |
| Total Inc GST | | | |

| Gross Tonnes | Tare Tonnes | Net Tonnes |
|---|---|---|
| 22.96 | 9.28 | 13.68 |

Additional Charges

| | |
|---|---|
| Time In | [illegible] |
| Time Out | [illegible] |
| Waiting Time | [illegible] |
| Extra Cartage | [illegible] |
| Other | [illegible] |

Material Received and Above Description Checked

[illegible]

[illegible]

---

Boral Quarries
Boral Resources (Qld) Pty Ltd
ABN 46 009 671 809
2/159 Coronation Drive Milton 4064
PO Box 1278 Stafford 4053
Tel 1300 305 978
Fax (07) 3285 3996

**Docket No.** 14161064

Plant: PETRIE
645 Dayboro Road
Time Out: 24/10/2023 2:36:01PM
External Ref:

Customer: 456020 ENVIROPACIFIC SERVICES PT LTD

Cust Ref: 10703878
Sales Order: Q-00168043 Greenslopes - Newdegate st
Despatch #: 616767 Qty
Product 133252: 26.5MM TYPE 2.3C MRTS06 13.78 t
Lot No.: 30911
Oth Chgs: ENVIRONMENT MANAGE 13.78 t
SO Qty: 1.00t Shpd Qty: 225.22 t
DO Qty: 32.00t Shpd Qty: 27.46 t

Delivery Address: 114 Newdegate St Greenslopes QLD
Map Ref: Kms 38
Vehicle: Q3085 XQ75AZ TRUCK
Delivery Instructs: SEAN 0457 420 060 CALL ON APPROACH

| | Qty | Rate | Amount |
|---|---|---|---|
| Product | 13.78 t | | |
| Other | | | |
| CC Fee | | | |
| GST | | | |
| Total Inc GST | | | |

| Gross Tonnes | Tare Tonnes | Net Tonnes |
|---|---|---|
| 23.06 | 9.28 | 13.78 |

Additional Charges

| | |
|---|---|
| Time In | [illegible] |
| Time Out | [illegible] |
| Waiting Time | [illegible] |
| Extra Cartage | [illegible] |
| Other | [illegible] |

Material Received and Above Description Checked

[illegible]

[illegible]

Boral Quarries
Boral Resources (Qld) Pty Ltd
ABN 46 009 671 809
2/159 Coronation Drive Milton 4064
PO Box 1279 Stafford 4053
Tel 1300 305 978
Fax (07) 3285 3996

**Docket No.** 14160128

| | |
|---|---|
| Plant | PETRIE<br>645 Dayboro Road |
| Time In - Out | 12/10/2023 6 08 06AM - 6 40 56AM |
| External Ref | |
| Customer | 456020 ENVIROPACIFIC SERVICES PT LTD |
| Cust Ref | 10703878 |
| Sales Order | Q-00168043 Greenslopes - Newdegate st |
| Despatch # | 618767 |
| Product | 26.5MM TYPE 2.3C MRTS05 |
| Lot No. | 30907 |
| Oth Chgs | ENVIRONMENT MANAGE |
| SO Qty | 1.00t |
| DO Qty | 42.00t |
| Shpd Qty | 133.94 |
| Shpd Qty | 32.68 |
| Delivery Address | 114 Newdegate St<br>Greenslopes, QLD |
| Map Ref | |
| Kms | 35 |
| Vehicle | Q3086 XB41IG |
| TRUCK | |
| Delivery Instructs | SEAN 0457 420 060 CALL ON APPROACH |

| | Qty | Rate | Amount |
|---|---|---|---|
| Product | 18.68 t | | |
| Other | | | |
| CC Fee | | | |
| GST | | | |
| Total Inc GST | | | |

| Gross Tonnes | Tare Tonnes | Net Tonnes |
|---|---|---|
| 28.40 | 9.72 | 18.68 |

**Additional Charges**

| | |
|---|---|
| Time In | [illegible] |
| Time Out | [illegible] |
| Waiting Time | [illegible] |
| Extra Cartage | [illegible] |
| Other | [illegible] |

**Material Received and Above Description Checked**

[illegible]

[illegible]

Boral Quarries
Boral Resources (Qld) Pty Ltd
ABN 46 009 671 809
2/159 Coronation Drive Milton 4064
PO Box 1279 Stafford 4053
Tel 1300 305 978
Fax (07) 3285 3996

**Docket No.** 14160126

| | |
|---|---|
| Plant | PETRIE<br>645 Dayboro Road |
| Time In - Out | 12/10/2023 6.07 41AM - 6 38.52AM |
| External Ref | |
| Customer | 456020 ENVIROPACIFIC SERVICES PT LTD |
| Cust Ref | 10703878 |
| Sales Order | Q-00168043 Greenslopes - Newdegate st |
| Despatch # | 618767 |
| Product | 26.5MM TYPE 2.3C MRTS05 |
| Lot No. | 30907 |
| Oth Chgs | ENVIRONMENT MANAGE |
| SO Qty | 1.00t |
| DO Qty | 42.00t |
| Shpd Qty | 165.26 |
| Shpd Qty | 14.00 |
| Delivery Address | 114 Newdegate St<br>Greenslopes, QLD |
| Map Ref | |
| Kms | 35 |
| Vehicle | Q3086 XQ75AZ |
| TRUCK | |
| Delivery Instructs | SEAN 0457 420 060 CALL ON APPROACH |

| | Qty | Rate | Amount |
|---|---|---|---|
| Product | 14.00 t | | |
| Other | | | |
| CC Fee | | | |
| GST | | | |
| Total Inc GST | | | |

| Gross Tonnes | Tare Tonnes | Net Tonnes |
|---|---|---|
| 23.28 | 9.28 | 14.00 |

**Additional Charges**

| | |
|---|---|
| Time In | [illegible] |
| Time Out | [illegible] |
| Waiting Time | [illegible] |
| Extra Cartage | [illegible] |
| Other | [illegible] |

**Material Received and Above Description Checked**

[illegible]

[illegible]

Boral Quarries
Boral Resources (Qld) Pty Ltd
ABN 46 009 871 809
2/159 Coronation Drive Milton 4064
PO Box 1278 Stafford 4053
Tel 1300 305 978
Fax (07) 3265 3998

**Docket No.** 14157086

| | |
|---|---|
| Plant | PETRIE<br>645 Dayboro Road |
| Time In - Out | 18/09/2023 8:48:41AM - 9:06:14AM |
| External Ref | |
| Customer | 456020 ENVIROPACIFIC SERVICES PT LTD |
| Cust Ref | 10703878 |
| Sales Order | Q-00168043 Greenslopes - Newdegate st |
| Despatch # | 616767 |
| Product | 26.5MM TYPE 2.3C MRTS05 |
| Lot No. | 30901 |
| Oth Chgs | ENVIRONMENT MANAGE |
| SO Qty | 1.00t |
| DO Qty | 28.00t |
| Shpd Qty | 123.32 t |
| Shpd Qty | 27.48 t |
| Delivery Address | 114 Newdegate St<br>Greenslopes QLD |
| Map Ref | |
| Kms | 38 |
| Vehicle | Q3085 XQ75AZ |
| Delivery Instructs | MICK 0438 386 774 |

| | Qty | Rate | Amount |
|---|---|---|---|
| Product | 13.84 t | | |
| Other | | | |
| CC Fee | | | |
| GST | | | |
| Total Inc GST | | | |

| Gross Tonnes | Tare Tonnes | Net Tonnes |
|---|---|---|
| 22.94 | 9.10 | 13.84 |

**Additional Charges**

| | |
|---|---|
| Time In | [illegible] |
| Time Out | [illegible] |
| Waiting Time | [illegible] |
| Extra Cartage | [illegible] |
| Other | [illegible] |

**Material Received and Above Description Checked**

[illegible]

[illegible]

Boral Quarries
Boral Resources (Qld) Pty Ltd
ABN 46 009 871 809
2/159 Coronation Drive Milton 4064
PO Box 1278 Stafford 4053
Tel 1300 305 978
Fax (07) 3265 3998

**Docket No.** 14160152

| | |
|---|---|
| Plant | PETRIE<br>645 Dayboro Road |
| Time In - Out | 12/10/2023 9:39:50AM - 9:49:18AM |
| External Ref | |
| Customer | 456020 ENVIROPACIFIC SERVICES PT LTD |
| Cust Ref | 10703878 |
| Sales Order | Q-00168043 Greenslopes - Newdegate st |
| Despatch # | 616767 |
| Product | 26.5MM TYPE 2.3C MRTS05 |
| Lot No. | 30907 |
| Oth Chgs | ENVIRONMENT MANAGE |
| SO Qty | 1.00t |
| DO Qty | 44.00t |
| Shpd Qty | 197.76 t |
| Shpd Qty | 46.50 t |
| Delivery Address | 114 Newdegate St<br>Greenslopes QLD |
| Map Ref | |
| Kms | 38 |
| Vehicle | Q3085 XQ75AZ |
| Delivery Instructs | SEAN 0407 420 060 CALL ON APPROACH |

| | Qty | Rate | Amount |
|---|---|---|---|
| Product | 13.82 t | | |
| Other | | | |
| CC Fee | | | |
| GST | | | |
| Total Inc GST | | | |

| Gross Tonnes | Tare Tonnes | Net Tonnes |
|---|---|---|
| 23.10 | 9.28 | 13.82 |

**Additional Charges**

| | |
|---|---|
| Time In | [illegible] |
| Time Out | [illegible] |
| Waiting Time | [illegible] |
| Extra Cartage | [illegible] |
| Other | [illegible] |

**Material Received and Above Description Checked**

[illegible]

[illegible]

Boral Quarries
Boral Resources (Qld) Pty Ltd
ABN 46 009 671 809
[illegible] Drummond Drive, Willeo 4054
PO Box 1278 Stafford 4053
Tel 1300 505 978
Fax (07) 3265 3996

Docket No. 141579JC

Plant: PETRIE
640 Daybrook Road
Time In - Out: 18/08/2023 6:07:06AM - 6:48:17AM
External Ref:

Customer: 456020 ENVIROPACIFIC SERVICES PT LTD

Cust Ref: 10703978
Sales Order: Q-0018[illegible]43 Greenslopes - newdegate st
Despatch #: 616757
Product: 26.5MM TYPE 2 DG MRTSOF — Qty 13.64 t
133252
Lot No.: 30601
Oth Chgs: ENVIRONMENT MANAGE — 13.64 t
SO Qty: 1.00t — Shpd Qty: 109.45 t
DO Qty: 28.00t — Shpd Qty: 13.64 t

Delivery Address: 114 Newdegate St Greenslopes, QLD
Map Ref:
Kms: 36
Vehicle: 03066 XQ7EA2 — TRUCK
Delivery Instructs: MICK 0428 390 774

| | Qty | Rate | Amount |
|---|---|---|---|
| Product | 13.64 t | | |
| Other | | | |
| CC Fee | | | |
| GST | | | |
| Total Inc GST | | | |

| Gross Tonnes | Tare Tonnes | Net Tonnes |
|---|---|---|
| 22.74 | 9.10 | 13.64 |

Additional Charges
Time In
Time Out
Waiting Time
Extra Cartage
Other

Material Received and Above Description Checked

Boral Quarries
Boral Resources (Qld) Pty Ltd
ABN 46 009 671 809
[illegible] Drummond Drive, Willeo 4054
PO Box 1278 Stafford 4053
Tel 1300 505 978
Fax (07) 3265 3996

Docket No. 141580JC

Plant: PETRIE
640 Daybrook Road
Time In - Out: 18/08/2023 2:45:55PM - 3:07:03PM
External Ref:

Customer: 456020 ENVIROPACIFIC SERVICES PT LTD

Cust Ref: 10703978
Sales Order: Q-0018[illegible]43 Greenslopes - Newdegate st
Despatch #: 616757
Product: 26.5MM TYPE 2 DG MRTSOF — Qty 13.70 t
133252
Lot No.: 30601
Oth Chgs: ENVIRONMENT MANAGE — 13.70 t
SO Qty: 1.00t — Shpd Qty: 137.02 t
DO Qty: 28.00t — Shpd Qty: 13.70 t

Delivery Address: 114 Newdegate St Greenslopes, QLD
Map Ref:
Kms: 36
Vehicle: 03084 466XAX — TRUCK
Delivery Instructs: MICK 0428 390 774

| | Qty | Rate | Amount |
|---|---|---|---|
| Product | 13.70 t | | |
| Other | | | |
| CC Fee | | | |
| GST | | | |
| Total Inc GST | | | |

| Gross Tonnes | Tare Tonnes | Net Tonnes |
|---|---|---|
| 23.22 | 9.52 | 13.70 |

Additional Charges
Time In
Time Out
Waiting Time
Extra Cartage
Other

Material Received and Above Description Checked

Boral Quarries
Boral Resources (Qld) Pty Ltd
ABN 46 009 671 809
2158 Gympie Road, Milton 4064
PO Box 1219 Stafford 4053
Tel 1300 305 976
Fax (07) 3265 3999

Docket No. 141580779

Plant: PETRIE
645 Daybord Road

Time In - Out: 18/09/2020 3:28:32PM - 3:39:24PM

External Ref:

Customer: 456020 ENVIROPACIFIC SERVICES PT LTD

Cust Ref: 10703876

Sales Order: Q-00165043 Greensopes St Newdegate

Despatch #: 616160 — Qty

Product 13326C: 26.5MM TYPE 1 W. MIX TSO1 — 14.34 T

Lot No.: 30801

Oth Chgs: ENVIRONMENT MANAGE — 14.34 T

SO Qty: 1.00 — Shpd Qty: 15.39 T

DO Qty: 38.00 — Shpd Qty: 37.94 T

Delivery Address: 114 Newdegate St Greensopes QLD

Map Ref: — Kins: 39

Vehicle: Q3026 XOT5AS — TRUCK

Delivery Instructs: MICK 0419 365 774

| | Qty | | Rate | Amount |
|---|---|---|---|---|
| Product | 14.34 | T | | |
| Other | | | | |
| CC Fee | | | | |
| GST | | | | |
| Total Inc GST | | | | |

| Gross Tonnes | Tare Tonnes | Net Tonnes |
|---|---|---|
| 23.34 | 9.10 | 14.24 |

Additional Charges

Time In
Time Out
Waiting Time
Extra Carriage
Other

Material Received and Above Description Checked

Boral Quarries
Boral Resources (Qld) Pty Ltd
ABN 46 009 671 809
2158 Gympie Road, Milton 4064
PO Box 1219 Stafford 4053
Tel 1300 305 976
Fax (07) 3265 3999

Docket No. 141557295

Plant: PETRIE
645 Daybord Road

Time In - Out: 12/09/2020 11:41:51AM - 11:49:18AM

External Ref:

Customer: 456020 ENVIROPACIFIC SERVICES PT LTD

Cust Ref: 10703876

Sales Order: Q-00165043 Greensopes St Newdegate

Despatch #: 616183 — Qty

Product 13326C: 26.5MM TYPE 1 W. MIX TSO1 — 13.14 T

Lot No.: 30800

Oth Chgs: ENVIRONMENT MANAGE — 13.14 T

SO Qty: 1.00 — Shpd Qty: 95.64 T

DO Qty: 45.00 — Shpd Qty: 40.74 T

Delivery Address: 114 Newdegate St Greensopes QLD

Map Ref: — Kins: 39

Vehicle: Q3084 ROSXAX — TRUCK

Delivery Instructs: MICK 0457 420 060 UHF 69

| | Qty | | Rate | Amount |
|---|---|---|---|---|
| Product | 13.14 | T | | |
| Other | | | | |
| CC Fee | | | | |
| GST | | | | |
| Total Inc GST | | | | |

| Gross Tonnes | Tare Tonnes | Net Tonnes |
|---|---|---|
| 22.66 | 9.52 | 13.14 |

Additional Charges

Time In
Time Out
Waiting Time
Extra Carriage
Other

Material Received and Above Description Checked

Boral Quarries
Boral Resources (Qld) Pty Ltd
ABN 46 009 671 809
2/152 Coronation Drive Milton 4064
PO Box 1278 Stafford 4053
Tel 1300 305 978
Fax (07) 3285 3996

**Docket No.** 14157255

| | |
|---|---|
| Plant | PETRIE<br>645 Dayboro Road |
| Time In - Out | 12/09/2023 11:21:41AM - 11:28:11AM |
| External Ref | |
| Customer | 456020 ENVIROPACIFIC SERVICES PT LTD |
| Cust Ref | 10703878 |
| Sales Order | Q-00168043 Greenslopes - Newdegate st |
| Despatch # | 615185 |
| Product 133252 | 26.5MM TYPE 2.3C MRTS05 |
| Lot No. | 30809 |
| Oth Chgs | ENVIRONMENT MANAGE |
| SO Qty | 1.00t |
| DO Qty | 45.00t |
| Shpd Qty | 62.70 |
| Shpd Qty | 27.60 |
| Delivery Address | 114 Newdegate St<br>Greenslopes QLD |
| Map Ref | |
| Kms | 38 |
| Vehicle | Q3085 XQ75AZ |
| TRUCK | |
| Delivery Instructs | MICK 0457 420 060 UHF 69 |

| | Qty | Rate | Amount |
|---|---|---|---|
| Product | 13.66 | | |
| Other | | | |
| CC Fee | | | |
| GST | | | |
| Total Inc GST | | | |

| Gross Tonnes | Tare Tonnes | Net Tonnes |
|---|---|---|
| 22.76 | 9.10 | 13.66 |

**Additional Charges**

| | |
|---|---|
| Time In | [illegible] |
| Time Out | [illegible] |
| Waiting Time | [illegible] |
| Extra Cartage | [illegible] |
| Other | [illegible] |

**Material Received and Above Description Checked**

[illegible]

[illegible]

Boral Quarries
Boral Resources (Qld) Pty Ltd
ABN 46 009 671 809
2/152 Coronation Drive Milton 4064
PO Box 1278 Stafford 4053
Tel 1300 305 978
Fax (07) 3285 3996

**Docket No.** 14157257

| | |
|---|---|
| Plant | PETRIE<br>645 Dayboro Road |
| Time In - Out | 12/09/2023 9:06:09AM - 9:19:53AM |
| External Ref | |
| Customer | 456020 ENVIROPACIFIC SERVICES PT LTD |
| Cust Ref | 10703878 |
| Sales Order | Q-00168043 Greenslopes - Newdegate st |
| Despatch # | 615185 |
| Product 133252 | 26.5MM TYPE 2.3C MRTS05 |
| Lot No. | 30809 |
| Oth Chgs | ENVIRONMENT MANAGE |
| SO Qty | 1.00t |
| DO Qty | 45.00t |
| Shpd Qty | 69.04 |
| Shpd Qty | 13.94 |
| Delivery Address | 114 Newdegate St<br>Greenslopes QLD |
| Map Ref | |
| Kms | 38 |
| Vehicle | Q3085 XQ75AZ |
| TRUCK | |
| Delivery Instructs | MICK 0457 420 060 UHF 69 |

| | Qty | Rate | Amount |
|---|---|---|---|
| Product | 13.94 | | |
| Other | | | |
| CC Fee | | | |
| GST | | | |
| Total Inc GST | | | |

| Gross Tonnes | Tare Tonnes | Net Tonnes |
|---|---|---|
| 23.04 | 9.10 | 13.94 |

**Additional Charges**

| | |
|---|---|
| Time In | [illegible] |
| Time Out | [illegible] |
| Waiting Time | [illegible] |
| Extra Cartage | [illegible] |
| Other | [illegible] |

**Material Received and Above Description Checked**

[illegible]

[illegible]

Boral Quarries
Boral Resources (Qld) Pty Ltd
ABN 46 009 671 809
2/159 Coronation Drive Milton 4064
PO Box 1276 Stafford 4053
Tel. 1300 305 978
Fax. (07) 3265 3996

ocket No. 14157141

ant PETRIE
645 Daybore Road
me In - Out 11/09/2023 9:19:35AM - 9:28:40AM
ternal Ref

ustomer 456020 ENVIROPACIFIC SERVICES PT LTD

ust Ref 10703878
ites Q-00168043 Greenslopes - Newdegate
rder st
espatch # 615185 Qty
oduct 26.5MM TYPE 2.3C MRTS05 13.64 t
3252
t No. 30809
h Chgs ENVIRONMENT MANAGE 13.64 t
Qty 1.00 Shpd Qty 41.16 t
Qty 60.00 Shpd Qty 41.16 t

elivery 114 Newdegate St
ddress Greenslopes, QLD
ap Ref Kms 38
hicle Q3084 469XAX TRUCK
elivery MICK 0457 420 060 CALL ON
structs APPROACH

| | Qty | Rate | Amount |
|---|---|---|---|
| oduct | 13.64 t | | |
| her | | | |
| C Fee | | | |
| ST | | | |
| tal Inc GST | | | |

| oss Tonnes | Tare Tonnes | Net Tonnes |
|---|---|---|
| .46 | 9.82 | 13.64 |

Additional Charges

me In INITIAL HERE
me Out INITIAL HERE
aiting Time INITIAL HERE
tra Cartage INITIAL HERE
her INITIAL HERE

Material Received and Above Description Checked
PRINT NAME & SIGN HERE

Boral Quarries
Boral Resources (Qld) Pty Ltd
ABN 46 009 671 809
2/159 Coronation Drive Milton 4064
PO Box 1276 Stafford 4053
Tel. 1300 305 978
Fax. (07) 3265 3996

ocket No. 14157143

ant PETRIE
645 Daybore Road
me In - Out 11/09/2023 9:24:15AM - 9:30:53AM
ternal Ref

ustomer 456020 ENVIROPACIFIC SERVICES PT LTD

ust Ref 10703878
ites Q-00168043 Greenslopes - Newdegate
rder st
espatch # 615185 Qty
oduct 26.5MM TYPE 2.3C MRTS05 13.94 t
3252
t No. 30809
h Chgs ENVIRONMENT MANAGE 13.94 t
Qty 1.00 Shpd Qty 55.10 t
Qty 60.00 Shpd Qty 55.10 t

elivery 114 Newdegate St
ddress Greenslopes, QLD
ap Ref Kms 38
hicle Q3086 XQ75AZ TRUCK
elivery MICK 0457 420 060 CALL ON
structs APPROACH

| | Qty | Rate | Amount |
|---|---|---|---|
| oduct | 13.94 t | | |
| her | | | |
| C Fee | | | |
| ST | | | |
| tal Inc GST | | | |

| oss Tonnes | Tare Tonnes | Net Tonnes |
|---|---|---|
| .04 | 9.10 | 13.94 |

Additional Charges

me In INITIAL HERE
me Out INITIAL HERE
aiting Time INITIAL HERE
tra Cartage INITIAL HERE
her INITIAL HERE

Material Received and Above Description Checked
PRINT NAME & SIGN HERE

Boral Quarries
Boral Resources (Qld) Pty Ltd
ABN 46 009 871 809
2/159 Coronation Drive Milton 4064
PO Box 1278 Stafford 4053
Tel 1300 305 978
Fax (07) 3285 3996

ocket No. 14157107

ant PETRIE
645 Dayboro Road
me In - Out 11/09/2023 6:09:59AM - 6:38:31AM
dernal Ref

ustomer 456020 ENVIROPACIFIC SERVICES PT LTD

ust Ref 10703878
ales Q-00168043 Greenslopes - Newdegate
rder st
espatch # 615185 Qty
oduct 26.5MM TYPE 2 3C MRTS05 13.80 t
3252
ot No. 30809
th Chgs ENVIRONMENT MANAGE 13.80 t
D Qty 1.00t Shpd Qty 27.52 t
D Qty 250.00t Shpd Qty 27.52 t

elivery 114 Newdegate St
ddress Greenslopes QLD
ap Ref Kms 38
ehicle Q3085 XQ75AZ TRUCK
elivery MICK 0457 420 080 CALL ON
structs APPROACH

| | Qty | | Rate | Amount |
|---|---|---|---|---|
| oduct | 13.80 | t | | |
| ther | | | | |
| C Fee | | | | |
| ST | | | | |
| otal Inc GST | | | | |

| ross Tonnes | Tare Tonnes | Net Tonnes |
|---|---|---|
| 1.90 | 9.10 * | 13.80 |

Additional Charges

| | |
|---|---|
| me In | INITIAL HERE |
| me Out | INITIAL HERE |
| aiting Time | INITIAL HERE |
| tra Cartage | INITIAL HERE |
| ther | INITIAL HERE |

Material Received and Above Description Checked

PRINT NAME & SIGN HERE

Boral Quarries
Boral Resources (Qld) Pty Ltd
ABN 46 009 871 809
2/159 Coronation Drive Milton 4064
PO Box 1278 Stafford 4053
Tel 1300 305 978
Fax (07) 3285 3996

ocket No. 14157105

ant PETRIE
645 Dayboro Road
me In - Out 11/09/2023 6:10:21AM - 6:36:20AM
dernal Ref

ustomer 456020 ENVIROPACIFIC SERVICES PT LTD

ust Ref 10703878
ales Q-00168043 Greenslopes - Newdegate
rder st
espatch # 615185 Qty
oduct 26.5MM TYPE 2 3C MRTS05 13.72 t
3252
ot No. 30809
th Chgs ENVIRONMENT MANAGE 13.72 t
D Qty 1.00t Shpd Qty 13.72 t
D Qty 250.00t Shpd Qty 13.72 t

elivery 114 Newdegate St
ddress Greenslopes QLD
ap Ref Kms 38
ehicle Q3084 469XAX TRUCK
elivery MICK 0457 420 080 CALL ON
structs APPROACH

| | Qty | | Rate | Amount |
|---|---|---|---|---|
| oduct | 13.72 | t | | |
| ther | | | | |
| C Fee | | | | |
| ST | | | | |
| otal Inc GST | | | | |

| ross Tonnes | Tare Tonnes | Net Tonnes |
|---|---|---|
| 1.24 | 9.52 * | 13.72 |

Additional Charges

| | |
|---|---|
| me In | INITIAL HERE |
| me Out | INITIAL HERE |
| aiting Time | INITIAL HERE |
| tra Cartage | INITIAL HERE |
| ther | INITIAL HERE |

Material Received and Above Description Checked

PRINT NAME & SIGN HERE

Boral Quarries
Boral Resources (Qld) Pty Ltd
ABN 46 009 671 809
2/159 Coronation Drive Milton 4064
PO Box 1278 Stafford 4053
Tel 1300 305 978
Fax (07) 5546 7068

| | |
|---|---|
| Docket No. | 14480211 |
| Plant | ORMEAU IMPORT<br>582 Upper Ormeau Road |
| Time In - Out | 24/02/2023 9:00:57AM - 9:13:34AM |
| External Ref | 107143 |
| Customer | 456020 ENVIROPACIFIC SERVICES PT LTD |
| Cust Ref | 10702678 |
| Sales Order | [illegible] Greenslopes - Newdegate Street |
| Despatch # | 577027 |
| Product 214981 | 75MM SPEC SIZE SHAKEDOWN — Qty 14.74 t |
| Lot No. | |
| Oth Chgs | ENVIRONMENT MANAGE 14.74 t |
| SO Qty | 1.00t Shpd Qty 44.16 t |
| DO Qty | 56.00t Shpd Qty 44.16 t |
| Delivery Address | Newdegate St<br>Greenslopes, QLD |
| Map Ref | Kms 46 |
| Vehicle | Q3141 XQ09OW TRUCK |
| Delivery Instructs | MICK 0438 386 774 CALL ON<br>APPROACH TRAFFIC CONTROL |

| | Qty | Rate | Amount |
|---|---|---|---|
| Product | 14.74 t | | |
| Other | | | |
| CC Fee | | | |
| GST | | | |
| Total Inc GST | | | |

| Gross Tonnes | Tare Tonnes | Net Tonnes |
|---|---|---|
| [illegible] | 8.26 | [illegible] |

Additional Charges

| | |
|---|---|
| Time In | INITIAL HERE |
| Time Out | INITIAL HERE |
| Waiting Time | INITIAL HERE |
| Extra Cartage | INITIAL HERE |
| Other | INITIAL HERE |

Material Received and Above Description Checked

PRINT NAME & SIGN HERE

The handling, storage and placement of spoil, products, or generic and that may contain hydrocarbons, fuels, which causes burning, irritation, or any disease [illegible] encouraged [illegible] Prolonged exposure to dust from spoil, products [illegible] Wear a dust mask that prevents the inhalation of dust particles. Wear gloves, goggles and dust masks that conform to Australian standards AS4825. [illegible] Boral [illegible] Boral [illegible] www.boral.com.au/terms

Boral Quarries
Boral Resources (Qld) Pty Ltd
ABN 46 009 671 809
2/159 Coronation Drive Milton 4064
PO Box 1278 Stafford 4053
Tel 1300 305 978
Fax (07) 5546 7068

| | |
|---|---|
| Docket No. | 14480212 |
| Plant | ORMEAU<br>582 Upper Ormeau Road |
| Time In - Out | 24/02/2023 9:01:44AM - 9:17:27AM |
| External Ref | IMPORT |
| Customer | 456020 ENVIROPACIFIC SERVICES PT LTD<br>107143 |
| Cust Ref | 10702678 |
| Sales Order | [illegible] Greenslopes - Newdegate Street |
| Despatch # | 577027 |
| Product 214981 | 75MM SPEC SIZE SHAKEDOWN — Qty 14.78 t |
| Lot No. | |
| Oth Chgs | ENVIRONMENT MANAGE 14.78 t |
| SO Qty | 1.00t Shpd Qty 58.94 t |
| DO Qty | 56.00t Shpd Qty 58.94 t |
| Delivery Address | Newdegate St<br>Greenslopes, QLD |
| Map Ref | Kms 46 |
| Vehicle | Q3202 XQ60TR TRUCK |
| Delivery Instructs | MICK 0438 386 774 CALL ON<br>APPROACH TRAFFIC CONTROL |

| | Qty | Rate | Amount |
|---|---|---|---|
| Product | 14.78 t | | |
| Other | | | |
| CC Fee | | | |
| GST | | | |
| Total Inc GST | | | |

| Gross Tonnes | Tare Tonnes | Net Tonnes |
|---|---|---|
| 23.20 | 8.42 | [illegible] |

Additional Charges

| | |
|---|---|
| Time In | INITIAL HERE |
| Time Out | INITIAL HERE |
| Waiting Time | INITIAL HERE |
| Extra Cartage | INITIAL HERE |
| Other | INITIAL HERE |

Material Received and Above Description Checked

PRINT NAME & SIGN HERE

[illegible]

27th July 2023

ADDRESS
Dayboro rd
Whiteside QLD

**Boral Construction Materials**
Boral Resources (Qld) Pty Limited
ABN 46 009 671 809
PO Box 125,
Kelvin Grove DC Qld 4059
L6, 88 Musk Ave, Kelvin Grove
T 07 3867 7600
F 07 3867 7420
www.boral.com.au

To Whom it Concerns,

# Certification: Virgin excavated natural material (VENM)

1. I David Hartzer

   of *Boral Quarries Petrie QLD*

   certify that the material as set out in section 2 of this notice is sourced from Virgin Excavated Natural Material (VENM) as defined as:

   *Natural material (such as clay, gravel, sand, soil or rock fines):*

   a) *That has been excavated or quarried from area that are not contaminated with manufactured chemicals, or with process residuals, as a result of industrial, commercial or agricultural activities and*
   b) *That does not contain any sulfidic ores or soils or any other waste*

   This certification is made on behalf of the materials generator being Boral Resources Qld. Pty Limited Petrie *Quarry.*

2. The material was generated at: Petrie Quarry

   Street address: Dayboro rd Whiteside *QLD*

   Title reference (Lot.): *Lot 1*

3. Boral has made the determination that the material is VENM because:

- ☒ We have assessed the historical and current land use of the site at which the material was generated.
- ☒ The material is not contaminated with manufactured chemicals, or with process residues, as a result of industrial, commercial or agricultural activities.
- ☒ The material does not contain any sulfidic ores or soils.
- ☒ The material does not contain any other waste.
- ☒ The material does not contain asbestos waste in any form.

**Note:** that all sections of this form must be completed including all boxes checked in Section 3 above and signed below for any material to be certified as VENM.

| | |
|---|---|
| Signature(s) | ..... |
| Name(s) (printed) | David Hartzer |
| Date | 27.07.23 |

# APPENDIX I: AIR MONITORING

# I.1 OCP DUST MONITORNIG REPORT

Ektimo

# Coffey Environments, Newtown

## Greenslope Project

## Organochlorine Pesticide Report

Report R015358[DRAFT 2]

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Ektimo

## Document Information

| | |
|---|---|
| Client Name: | Coffey Environments |
| Report Number: | R015358[DRAFT 2] |
| Date of Issue: | 21 November 2023 |
| Attention: | Jeremy Wicks |
| Address: | Level 1, 23 West Fyans Street<br>NEWTOWN VIC 3220 |
| Testing Laboratory: | Ektimo Pty Ltd, ABN 86 600 381 413 |

## Report Authorisation

**Henry Diona**
**Senior Air Monitoring Consultant**

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# 1 Executive Summary

## *1.1 Background*

Ektimo was engaged by Coffey Environments, Newtown, Geelong to perform ambient monitoring for a contaminated soil remediation project at a location in Greenslopes, Brisbane. Monitoring for Dust and OC Pesticides was carried out over a 6-week work period at 2 x boundary locations at the site.

## *1.2 Project Objectives*

The objectives of the project were to conduct a monitoring programme to determine ambient levels of dust and OC Pesticides at the boundary using high a volume sampling instrument. To achieve the contaminants detection limit, samples were obtained for seven (7) project working days. The below adopted criteria will be achieved for each round of sampling during the remediation project.

| Contaminant | USEPA RSL Residential Air Quality x 10 ng/m$^3$ |
|---|---|
| 4,4-DDE | 290 |
| Aldrin | 5.7 |
| chlordane | 280 |
| DDD | 410 |
| DDT | 290 |
| Dieldrin | 6.1 |
| Endrin aldehyde | |
| Endrin ketone | |
| Endosulfan I | |
| Endrin | |
| Heptachlor | 22 |
| Heptachlor epoxide | 11 |

The samples that were obtained represent the sampling period from 28 August to 23 October 2023.

| Location | Test Date | Test Parameters* |
|---|---|---|
| Northside site location | 28 August – 23 October 2023 | Total suspended particulates<br>Organochlorine pesticides |
| Southeast site location | | |

Sampling technique used for this program is based on US EPA Compendium Method TO-4A – Determination of Pesticides and Polychlorinated Biphenyls in Ambient Air Using High Volume Polyurethane Foam (PUF) Sampling. A high-volume sampler, approximately 13.6 m$^3$/hr, is used to collect common pesticides on a sorbent cartridge containing PUF and are returned to the laboratory for analysis. To achieve the contaminants detection limit, samples were obtained for seven (7) project working days.

## 1.3 Results Summary

### 1.3.1 Northside site location

| Northside Site Location<br>Date | Unit | USEPA RSL Residential Air Quality x 10 ($ng/m^3$) | 28/08/2023 - 5/09/2023 | 6/09/2023 - 14/09/2023 | 15/09/2023 - 25/09/2023 | 26/09/2023 - 5/10/2023 | 6/10/2023 - 13/10/2023 | 16/10/2023 - 23/10/2023 |
|---|---|---|---|---|---|---|---|---|
| **TSP** | | | | | | | | |
| Total Suspended Particulates | $mg/m^3$ | | **54** | **16** | **110** | **190** | **25** | **26** |
| **Pesticides** | | | | | | | | |
| HCB | $ng/m^3$ | | <0.17 | <0.18 | <0.16 | <0.16 | <0.19 | <0.19 |
| Heptachlor | $ng/m^3$ | **22** | <0.17 | <0.18 | <0.16 | **0.21** | 0.28 | <0.19 |
| Heptachlor epoxide | $ng/m^3$ | **11** | <0.17 | <0.18 | <0.16 | <0.16 | <0.19 | <0.19 |
| Aldrin | $ng/m^3$ | **5.7** | <0.17 | <0.18 | **0.35** | <0.16 | <0.19 | <0.19 |
| gamma-BHC(Lindane) | $ng/m^3$ | | <0.17 | <0.18 | <0.16 | <0.16 | <0.19 | <0.19 |
| alpha-BHC | $ng/m^3$ | | <0.17 | <0.18 | <0.16 | <0.16 | <0.19 | <0.19 |
| beta-BHC | $ng/m^3$ | | <0.17 | <0.18 | <0.16 | <0.16 | <0.19 | <0.19 |
| delta-BHC | $ng/m^3$ | | <0.17 | <0.18 | <0.16 | <0.16 | <0.19 | <0.19 |
| trans-Chlordane | $ng/m^3$ | **280** | **1.2** | **0.95** | **0.27** | **0.87** | **1.2** | **0.56** |
| cis-Chlordane | $ng/m^3$ | **280** | **0.91** | **0.67** | **0.21** | **0.63** | **0.81** | **0.37** |
| Oxychlordane | $ng/m^3$ | | <0.17 | <0.18 | <0.16 | <0.16 | <0.19 | <0.19 |
| Dieldrin | $ng/m^3$ | **6.1** | **2** | **0.72** | **0.82** | **0.35** | <0.19 | <0.19 |
| p,p-DDE | $ng/m^3$ | **290** | <0.17 | <0.18 | <0.16 | <0.16 | <0.19 | <0.19 |
| p,p-DDD | $ng/m^3$ | **410** | <0.17 | <0.18 | <0.16 | <0.16 | <0.19 | <0.19 |
| p,p-DDT | $ng/m^3$ | **290** | <0.17 | <0.18 | <0.16 | <0.16 | <0.19 | <0.19 |
| Endrin | $ng/m^3$ | | <0.17 | <0.18 | <0.16 | <0.16 | <0.19 | <0.19 |
| Endrin aldehyde | $ng/m^3$ | | <0.17 | <0.18 | <0.16 | <0.16 | <0.19 | <0.19 |
| Endrin Ketone | $ng/m^3$ | | <0.17 | <0.18 | <0.16 | <0.16 | <0.19 | <0.19 |
| alpha-Endosulfan | $ng/m^3$ | | <0.17 | <0.18 | <0.16 | <0.16 | <0.19 | <0.19 |
| beta-Endosulfan | $ng/m^3$ | | <0.17 | <0.18 | <0.16 | <0.16 | <0.19 | <0.19 |
| Endosulfan sulfate | $ng/m^3$ | | <0.17 | <0.18 | <0.16 | <0.16 | <0.19 | <0.19 |
| Methoxychlor | $ng/m^3$ | | <0.17 | <0.18 | <0.16 | <0.16 | <0.19 | <0.19 |
| Dicofol | $ng/m^3$ | | <0.17 | <0.18 | <0.16 | <0.16 | <0.19 | <0.19 |

### *1.3.2 Southeast site location*

| Southeast Site Location<br>Date | Unit | USEPA RSL Residential Air Quality x 10 ($ng/m^3$) | 28/08/2023 - 5/09/2023 | 6/09/2023 - 14/09/2023 | 15/09/2023 - 25/09/2023 | 26/09/2023 - 5/10/2023 | 6/10/2023 - 13/10/2023 | 16/10/2023 - 23/10/2023 |
|---|---|---|---|---|---|---|---|---|
| **TSP** | | | | | | | | |
| Total Suspended Particulates | $mg/m^3$ | | **8.4** | **42** | **30** | **26** | **0.076** | **3.3** |
| **Pesticides** | | | | | | | | |
| HCB | $ng/m^3$ | | <0.14 | <0.14 | <0.11 | <0.13 | <0.085 | <0.089 |
| Heptachlor | $ng/m^3$ | **22** | **0.2** | <0.14 | <0.11 | <0.13 | <0.085 | <0.089 |
| Heptachlor epoxide | $ng/m^3$ | **11** | <0.14 | <0.14 | <0.11 | <0.13 | <0.085 | <0.089 |
| Aldrin | $ng/m^3$ | **5.7** | <0.14 | <0.14 | 0.12 | <0.13 | <0.085 | <0.089 |
| gamma-BHC(Lindane) | $ng/m^3$ | | <0.14 | <0.14 | <0.11 | <0.13 | <0.085 | <0.089 |
| alpha-BHC | $ng/m^3$ | | <0.14 | <0.14 | <0.11 | <0.13 | <0.085 | <0.089 |
| beta-BHC | $ng/m^3$ | | <0.14 | <0.14 | <0.11 | <0.13 | <0.085 | <0.089 |
| delta-BHC | $ng/m^3$ | | <0.14 | <0.14 | <0.11 | <0.13 | <0.085 | <0.089 |
| trans-Chlordane | $ng/m^3$ | **280** | **1.2** | **0.56** | <0.11 | **0.34** | <0.085 | <0.089 |
| cis-Chlordane | $ng/m^3$ | **280** | **0.9** | **0.41** | <0.11 | **0.24** | <0.085 | <0.089 |
| Oxychlordane | $ng/m^3$ | | <0.14 | <0.14 | <0.11 | <0.13 | <0.085 | <0.089 |
| Dieldrin | $ng/m^3$ | **6.1** | <0.14 | <0.14 | **0.15** | **0.5** | <0.085 | <0.089 |
| p,p-DDE | $ng/m^3$ | **290** | <0.14 | <0.14 | <0.11 | <0.13 | <0.085 | <0.089 |
| p,p-DDD | $ng/m^3$ | **410** | <0.14 | <0.14 | <0.11 | <0.13 | <0.085 | <0.089 |
| p,p-DDT | $ng/m^3$ | **290** | <0.14 | <0.14 | <0.11 | <0.13 | <0.085 | <0.089 |
| Endrin | $ng/m^3$ | | <0.14 | <0.14 | <0.11 | <0.13 | <0.085 | <0.089 |
| Endrin aldehyde | $ng/m^3$ | | <0.14 | <0.14 | <0.11 | <0.13 | <0.085 | <0.089 |
| Endrin Ketone | $ng/m^3$ | | <0.14 | <0.14 | <0.11 | <0.13 | <0.085 | <0.089 |
| alpha-Endosulfan | $ng/m^3$ | | <0.14 | <0.14 | <0.11 | <0.13 | <0.085 | <0.089 |
| beta-Endosulfan | $ng/m^3$ | | <0.14 | <0.14 | <0.11 | <0.13 | <0.085 | <0.089 |
| Endosulfan sulfate | $ng/m^3$ | | <0.14 | <0.14 | <0.11 | <0.13 | <0.085 | <0.089 |
| Methoxychlor | $ng/m^3$ | | <0.14 | <0.14 | <0.11 | <0.13 | <0.085 | <0.089 |
| Dicofol | $ng/m^3$ | | <0.14 | <0.14 | <0.11 | <0.13 | <0.085 | <0.089 |

# 2 Results

## *2.1 Northside site location*

| | | | | |
|---|---|---|---|---|
| Date | 28 August - 25 September 2023 | Client | Coffey Environments | |
| Report | R015358 | Site ID | Northside | |
| Licence No. | - | Location | Greenslope | State QLD |
| Ektimo Staff | Jhon Araque, Manipal Singh | | | |
| Reason for testing: | Client requested testing to determine emissions to air | | | |

| **Particulate matter (TSP)** | Test 1 | Test 2 | Test 3 |
|---|---|---|---|
| Date | 28/8/2023- 5/9/2023 | 6/9/2023-14/9/2023 | 15/9/2023-25/9/2023 |
| Meter volume (m³) | 588.7 | 559.6 | 614.9 |
| | Concentration mg/m³ | Concentration mg/m³ | Concentration mg/m³ |
| Total suspended particulates | 54 | 16 | 110 |

| **Pesticides** | Concentration ng/m³ | Concentration ng/m³ | Concentration ng/m³ |
|---|---|---|---|
| HCB | <0.17 | <0.18 | <0.16 |
| Heptachlor | <0.17 | <0.18 | <0.16 |
| Heptachlor epoxide | <0.17 | <0.18 | <0.16 |
| Aldrin | <0.17 | <0.18 | 0.35 |
| gamma-BHC(Lindane) | <0.17 | <0.18 | <0.16 |
| alpha-BHC | <0.17 | <0.18 | <0.16 |
| beta-BHC | <0.17 | <0.18 | <0.16 |
| delta-BHC | <0.17 | <0.18 | <0.16 |
| trans-Chlordane | 1.2 | 0.95 | 0.27 |
| cis-Chlordane | 0.91 | 0.67 | 0.21 |
| Oxychlordane | <0.17 | <0.18 | <0.16 |
| Dieldrin | 2 | 0.72 | 0.82 |
| p,p-DDE | <0.17 | <0.18 | <0.16 |
| p,p-DDD | <0.17 | <0.18 | <0.16 |
| p,p-DDT | <0.17 | <0.18 | <0.16 |
| Endrin | <0.17 | <0.18 | <0.16 |
| Endrin aldehyde | <0.17 | <0.18 | <0.16 |
| Endrin Ketone | <0.17 | <0.18 | <0.16 |
| alpha-Endosulfan | <0.17 | <0.18 | <0.16 |
| beta-Endosulfan | <0.17 | <0.18 | <0.16 |
| Endosulfan sulfate | <0.17 | <0.18 | <0.16 |
| Methoxychlor | <0.17 | <0.18 | <0.16 |
| Dicofol | <0.17 | <0.18 | <0.16 |

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| | | | | |
|---|---|---|---|---|
| Date | 26 September - 23 October 2023 | Client | Coffey Environments | |
| Report | R015358 | Site ID | Northside | |
| Licence No. | - | Location | Greenslope | State QLD |
| Ektimo Staff | Jhon Araque, Jackson Riley, Manipal Singh | | | |
| Reason for testing: | Client requested testing to determine emissions to air | | | |

| **Particulate matter (TSP)** | Test 1 | Test 2 | Test 3 |
|---|---|---|---|
| Date | 26/9/2023- 5/10/2023 | 6/10/2023 -13/10/2023 | 16/10/2023-23/10/2023 |
| Meter volume (m³) | 602.5 | 525.8 | 516.2 |
| | Concentration mg/m³ | Concentration mg/m³ | Concentration mg/m³ |
| Total suspended particulates | 190 | 25 | 26 |

| **Pesticides** | Concentration ng/m³ | Concentration ng/m³ | Concentration ng/m³ |
|---|---|---|---|
| HCB | <0.16 | <0.19 | <0.19 |
| Heptachlor | 0.21 | 0.28 | <0.19 |
| Heptachlor epoxide | <0.16 | <0.19 | <0.19 |
| Aldrin | <0.16 | <0.19 | <0.19 |
| gamma-BHC(Lindane) | <0.16 | <0.19 | <0.19 |
| alpha-BHC | <0.16 | <0.19 | <0.19 |
| beta-BHC | <0.16 | <0.19 | <0.19 |
| delta-BHC | <0.16 | <0.19 | <0.19 |
| trans-Chlordane | 0.87 | 1.2 | 0.56 |
| cis-Chlordane | 0.63 | 0.81 | 0.37 |
| Oxychlordane | <0.16 | <0.19 | <0.19 |
| Dieldrin | 0.35 | <0.19 | <0.19 |
| p,p-DDE | <0.16 | <0.19 | <0.19 |
| p,p-DDD | <0.16 | <0.19 | <0.19 |
| p,p-DDT | <0.16 | <0.19 | <0.19 |
| Endrin | <0.16 | <0.19 | <0.19 |
| Endrin aldehyde | <0.16 | <0.19 | <0.19 |
| Endrin Ketone | <0.16 | <0.19 | <0.19 |
| alpha-Endosulfan | <0.16 | <0.19 | <0.19 |
| beta-Endosulfan | <0.16 | <0.19 | <0.19 |
| Endosulfan sulfate | <0.16 | <0.19 | <0.19 |
| Methoxychlor | <0.16 | <0.19 | <0.19 |
| Dicofol | <0.16 | <0.19 | <0.19 |

## 2.2 Southeast site location

| | | | | |
|---|---|---|---|---|
| Date | 28 August - 25 September 2023 | Client | Coffey Environments | |
| Report | R015358 | Site ID | Southeast side | |
| Licence No. | - | Location | Greenslope | State QLD |
| Ektimo Staff | Jhon Araque, Manipal Singh | | | |
| Reason for testing: | Client requested testing to determine emissions to air | | | |

| **Particulate matter (TSP)** | Test 1 | Test 2 | Test 3 |
|---|---|---|---|
| Date | 28/8/2023- 5/9/2023 | 6/9/2023- 14/9/2023 | 15/9/2023-25/9/2023 |
| Meter volume (m³) | 708.36 | 689.2 | 907.3 |
| | Concentration mg/m³ | Concentration mg/m³ | Concentration mg/m³ |
| Total suspended particulates | 8.4 | 42 | 30 |

| **Pesticides** | Concentration ng/m³ | Concentration ng/m³ | Concentration ng/m³ |
|---|---|---|---|
| HCB | <0.14 | <0.14 | <0.11 |
| Heptachlor | 0.2 | <0.14 | <0.11 |
| Heptachlor epoxide | <0.14 | <0.14 | <0.11 |
| Aldrin | <0.14 | <0.14 | 0.12 |
| gamma-BHC(Lindane) | <0.14 | <0.14 | <0.11 |
| alpha-BHC | <0.14 | <0.14 | <0.11 |
| beta-BHC | <0.14 | <0.14 | <0.11 |
| delta-BHC | <0.14 | <0.14 | <0.11 |
| trans-Chlordane | 1.2 | 0.56 | <0.11 |
| cis-Chlordane | 0.9 | 0.41 | <0.11 |
| Oxychlordane | <0.14 | <0.14 | <0.11 |
| Dieldrin | <0.14 | <0.14 | 0.15 |
| p,p-DDE | <0.14 | <0.14 | <0.11 |
| p,p-DDD | <0.14 | <0.14 | <0.11 |
| p,p-DDT | <0.14 | <0.14 | <0.11 |
| Endrin | <0.14 | <0.14 | <0.11 |
| Endrin aldehyde | <0.14 | <0.14 | <0.11 |
| Endrin Ketone | <0.14 | <0.14 | <0.11 |
| alpha-Endosulfan | <0.14 | <0.14 | <0.11 |
| beta-Endosulfan | <0.14 | <0.14 | <0.11 |
| Endosulfan sulfate | <0.14 | <0.14 | <0.11 |
| Methoxychlor | <0.14 | <0.14 | <0.11 |
| Dicofol | <0.14 | <0.14 | <0.11 |

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| | | | | |
|---|---|---|---|---|
| Date | 26 September - 23 October 2023 | Client | Coffey Environments | |
| Report | R015358 | Site ID | Southeast side | |
| Licence No. | - | Location | Greenslopes | State QLD |
| Ektimo Staff | Jhon Arque, Jackson Riley, Manipal Singh | | | |
| Reason for testing: | Client requested testing to determine emissions to air | | | |

| **Particulate matter (TSP)** | Test 1 | Test 2 | Test 3 |
|---|---|---|---|
| Date | 26/9/2023- 5/10/2023 | 6/10/2023-13/10/2023 | 16/10/23-23/10/2023 |
| Meter volume (m³) | 736.5 | 1167.2 | 1123.6 |
| | Concentration mg/m³ | Concentration mg/m³ | Concentration mg/m³ |
| Total suspended particulates | 26 | 0.076 | 3.3 |

| **Pesticides** | Concentration ng/m³ | Concentration ng/m³ | Concentration ng/m³ |
|---|---|---|---|
| HCB | <0.13 | <0.085 | <0.089 |
| Heptachlor | <0.13 | <0.085 | <0.089 |
| Heptachlor epoxide | <0.13 | <0.085 | <0.089 |
| Aldrin | <0.13 | <0.085 | <0.089 |
| gamma-BHC(Lindane) | <0.13 | <0.085 | <0.089 |
| alpha-BHC | <0.13 | <0.085 | <0.089 |
| beta-BHC | <0.13 | <0.085 | <0.089 |
| delta-BHC | <0.13 | <0.085 | <0.089 |
| trans-Chlordane | 0.34 | <0.085 | <0.089 |
| cis-Chlordane | 0.24 | <0.085 | <0.089 |
| Oxychlordane | <0.13 | <0.085 | <0.089 |
| Dieldrin | 0.5 | <0.085 | <0.089 |
| p,p-DDE | <0.13 | <0.085 | <0.089 |
| p,p-DDD | <0.13 | <0.085 | <0.089 |
| p,p-DDT | <0.13 | <0.085 | <0.089 |
| Endrin | <0.13 | <0.085 | <0.089 |
| Endrin aldehyde | <0.13 | <0.085 | <0.089 |
| Endrin Ketone | <0.13 | <0.085 | <0.089 |
| alpha-Endosulfan | <0.13 | <0.085 | <0.089 |
| beta-Endosulfan | <0.13 | <0.085 | <0.089 |
| Endosulfan sulfate | <0.13 | <0.085 | <0.089 |
| Methoxychlor | <0.13 | <0.085 | <0.089 |
| Dicofol | <0.13 | <0.085 | <0.089 |

## 3 Test Methods

All sampling performed by Ektimo unless otherwise specified. Specific details of the methods are available upon request.

| Parameter | Sampling method | Analysis method | Uncertainty* | NATA accredited Sampling | NATA accredited Analysis |
|---|---|---|---|---|---|
| Organopesticides | USEPA TO-4A | NMI in-house method NR47 | not specified | × | ✓¶ |

*311023*

* Uncertainties cited in this table are estimated using typical values and are calculated at the 95% confidence level (coverage factor = 2).

¶ Analysis performed by Australian Government National Measurement Institute, NATA accreditation number 198. Results were reported to Ektimo on:
5 October 2023 in reports RN1407051 and RN1407053.
30 October 2023 in reports RN1409422 and RN1409427.
13 November 2023 in report RN1410826.
15 November 2023 in report RN1410977.

## 4 Quality Assurance/Quality Control Information

Ektimo is accredited by the National Association of Testing Authorities (NATA) for the sampling and analysis of air pollutants from industrial sources. Unless otherwise stated test methods used are accredited with the National Association of Testing Authorities. For full details, search for Ektimo at NATA's website www.nata.com.au.

Ektimo is accredited by NATA to ISO/IEC 17025 - Testing. ISO/IEC 17025 - Testing requires that a laboratory have adequate equipment to perform the testing, as well as laboratory personnel with the competence to perform the testing. This quality assurance system is administered and maintained by the Quality Director.

NATA is a member of APAC (Asia Pacific Accreditation Co-operation) and of ILAC (International Laboratory Accreditation Co-operation). Through mutual recognition arrangements with these organisations, NATA accreditation is recognised worldwide.

## 5 Definitions

The following symbols and abbreviations may be used in this test report:

| | |
|---|---|
| % v/v | Volume to volume ratio, dry basis |
| ~ | Approximately |
| < | Less than |
| > | Greater than |
| ≥ | Greater than or equal to |
| AS | Australian Standard |
| NT | Not tested or results not required |
| OM | Other approved method |
| STP | Standard temperature and pressure. Gas volumes and concentrations are expressed on a dry basis at 0 °C, at discharge oxygen concentration and an absolute pressure of 101.325 kPa. |
| USEPA | United States Environmental Protection Agency |

# 6 Appendices

## Appendix A: Site Images

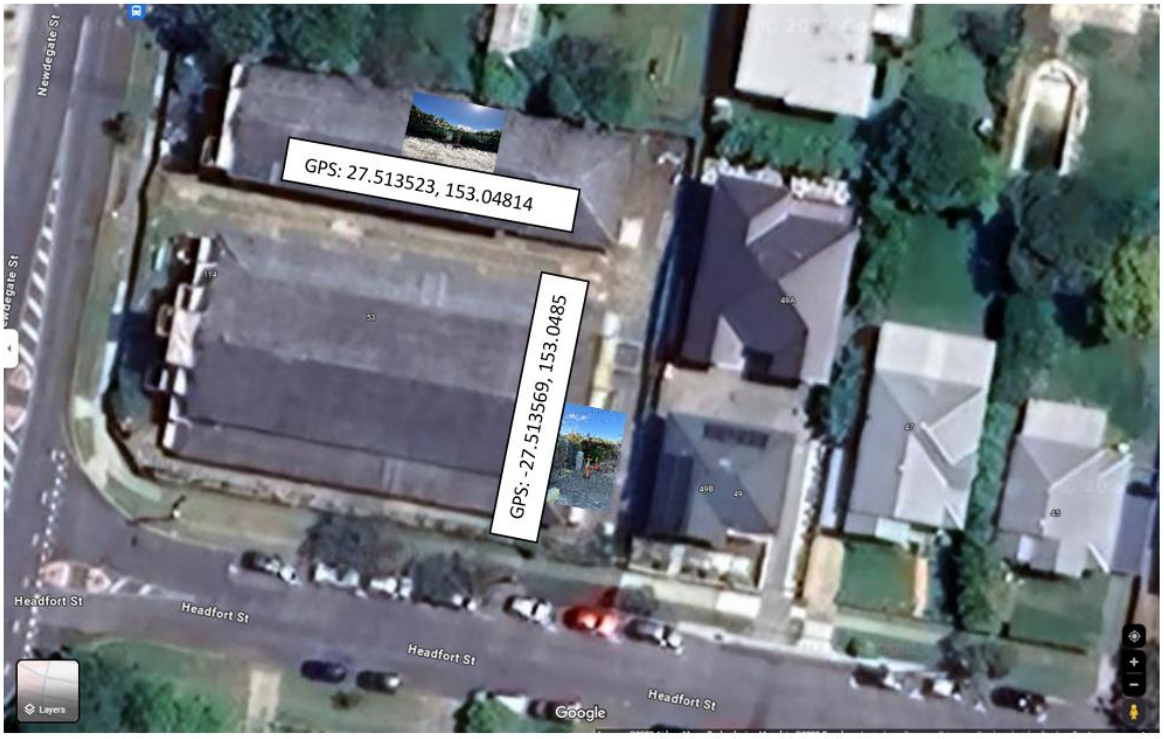


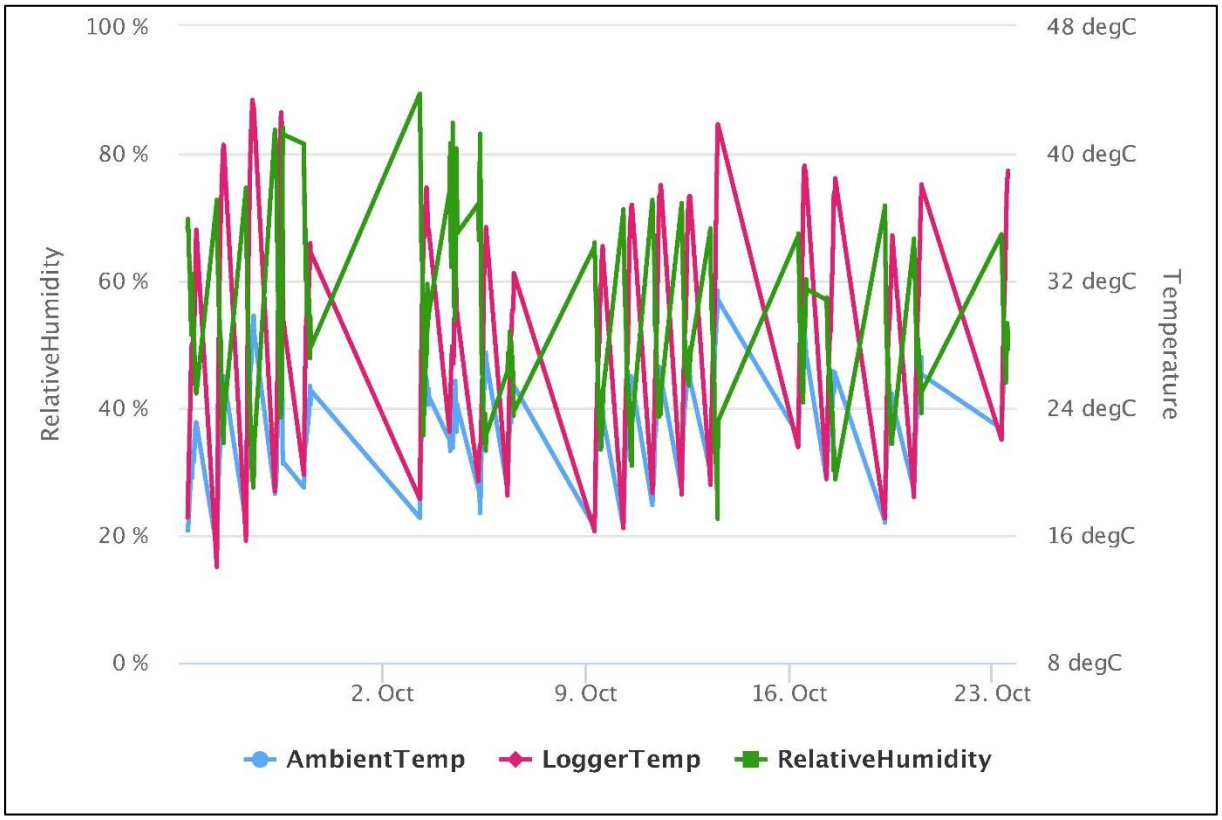

*Image 1. Sampling Location*

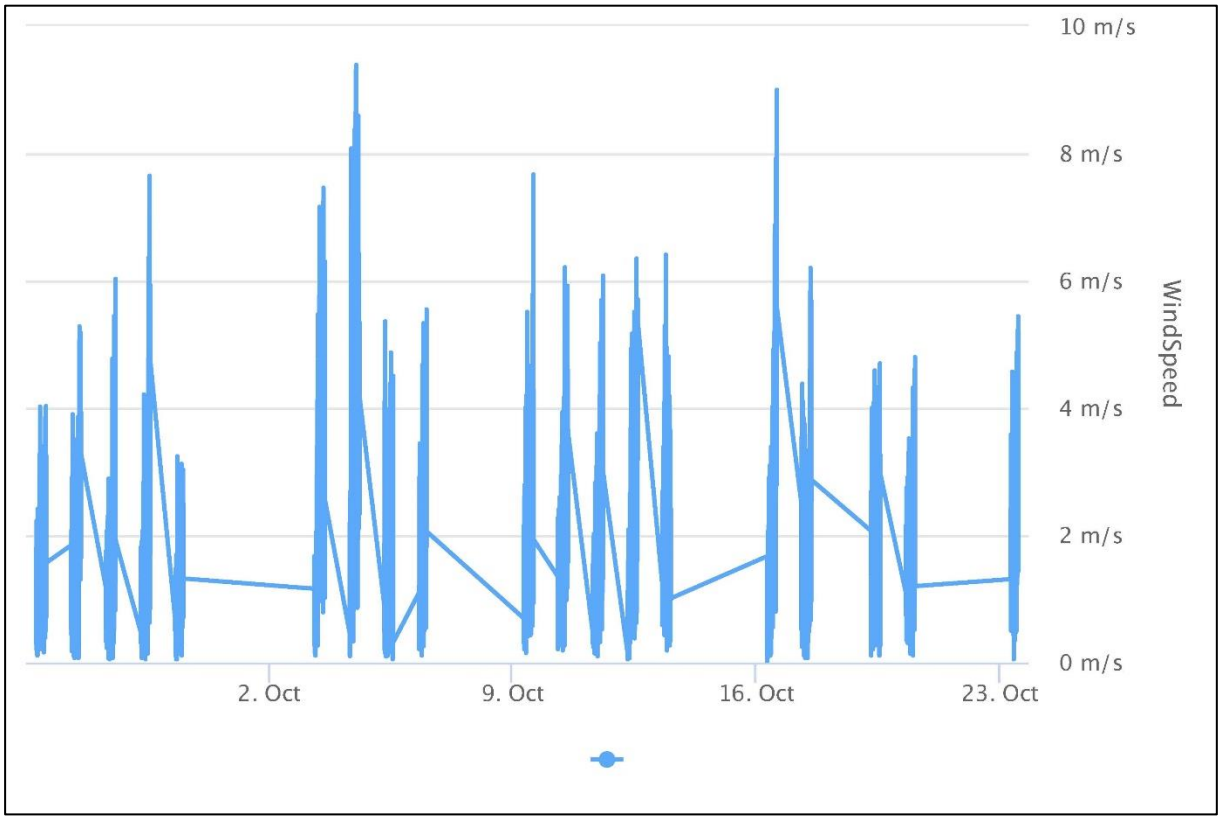
*Image 2. Meteorological Station*

*Image 3. LSA PUF (Northside site location)*

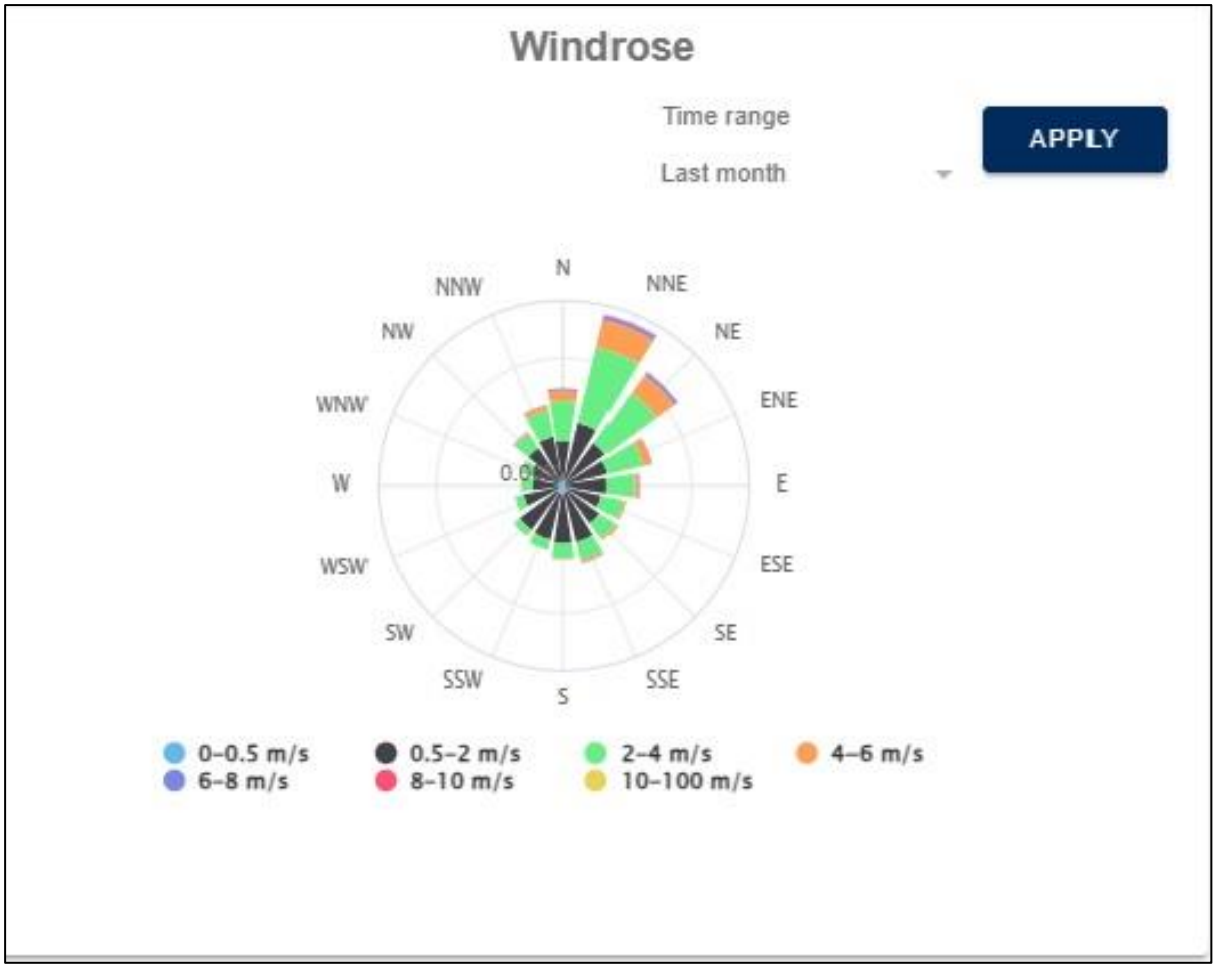
*Image 4. Ecotech PUF (Southeast site location)*

## Appendix B: Weather Observations



**Windrose. Daily wind speed and direction based on installed onsite MET station, 28th August 2023 – 23rd October 2023.**



## Appendix C: Laboratory Results

| Sample Log | | | |
|---|---|---|---|
| **Q7538** | R015358 | Ecotech - South East | Filter (AUT_PF2) + PUF (AUT230803B) |
| **Q7539** | R015358 | LSA - North | Filter (AUT_PF3) + PUF (AUT230803A) |
| **Q7540** | R015358 | Ecotech - South East | Filter (AUT_PF11) + PUF (AUT230803C) |
| **Q7541** | R015358 | LSA - North | Filter (AUT_PF10) + PUF (AUT230803F) |
| **Q7655** | R015358 | Ecotech - Southeast | Filter (AUT_PF4) + PUF (AUT230803D) |
| **Q7656** | R015358 | LSA - North | Filter (AUT_PF12) + PUF (AUT230816B) |
| **Q7666** | R015358 | Ecotech - East | Filter (AUT_PF6) + PUF (AUT230816C) |
| **Q7667** | R015358 | LSA - South | Filter (AUT_PF5) + PUF (AUT230816E) |
| **Q7688** | R015358 | Ecotech - East | Filter (AUT_PF8) + PUF (AUT230816F) |
| **Q7689** | R015358 | LSA - South | Filter (AUT_PF7) + PUF (AUT230816D) |
| **Q7724** | R015886 | Ecotech - East | Filter (AUT_PF13) + PUF (AUT230816C) |
| **Q7725** | R015886 | LSA - South | Filter (AUT_PF9) + PUF (AUT230816A) |
| **Q7726** | R015886 | Field Blank | Filter (AUT_PF14) + PUF (AUT230803G) |

## Particulate Measurement Results

| Sample ID | NMI Reference | Job Number | Filter Number | Particulate Mass /g |
|---|---|---|---|---|
| **Q7538** | N23/018574 | EKTI01/230911/1 | AUT_PF2 | 0.03167 g |
| **Q7539** | N23/018575 | EKTI01/230911/1 | AUT_PF3 | 0.00596 g |
| **Q7540** | N23/019335 | EKTI01/230919 | AUT_PF11 | 0.02907 g |
| **Q7541** | N23/019336 | EKTI01/230919 | AUT_PF10 | 0.00924 g |
| **Q7655** | N23/019956 | EKTI01/230928 | AUT_PF4 | 0.02741 g |
| **Q7656** | N23/019957 | EKTI01/230928 | AUT_PF12 | 0.06558 g |
| **Q7666** | N23/020719 | EKTI01/231009/2 | AUT_PF6 | 0.01916 g |
| **Q7667** | N23/020720 | EKTI01/231009/2 | AUT_PF5 | 0.11692 g |
| **Q7688** | N23/021848 | EKTI01/231018/1 | AUT_PF8 | 0.00009 g |
| **Q7689** | N23/021849 | EKTI01/231018/1 | AUT_PF7 | 0.01332 g |
| **Q7724** | N23/022524 | EKTI01/231026 | AUT_PF13 | 0.00373 g |
| **Q7725** | N23/022525 | EKTI01/231026 | AUT_PF9 | 0.01367 g |
| **Q7726** | N23/022526 | EKTI01/231026 | AUT_PF14 | 0.00353 g |

Australian Government
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# REPORT OF ANALYSIS



Report No. RN1407051

| | | | |
|---|---|---|---|
| **Client** | : EKTIMO PTY LTD<br>52 COOPER ROAD<br>COCKBURN CENTRAL WA 6164 | **Job No.** | : EKTI01/230919 |
| | | **Quote No.** | : QT-02083 |
| | | **Order No.** | : W012147 |
| | | **Date Received** | : 19-SEP-2023 |
| **Attention** | : HENRY DIONA | **Sampled By** | : CLIENT |
| **Project Name** | : | | |
| **Your Client Services Manager** | : Tim Reddan | **Phone** | : |

| Lab Reg No. | Sample Ref | Sample Description |
|---|---|---|
| N23/019335 | Q7540 | JOB NO. R015358 |
| N23/019336 | Q7541 | JOB NO. R015358 |

| **Lab Reg No.** | | **N23/019335** | **N23/019336** | | | |
|---|---|---|---|---|---|---|
| **Date Sampled** | | **Not Provided** | **Not Provided** | | | |
| **Sample Reference** | **Units** | **Q7540** | **Q7541** | | | **Method** |
| **Organochlorine (OC) Pesticides** | | | | | | |
| HCB | ug | <0.1 | <0.1 | | | NR47 |
| Heptachlor | ug | <0.1 | <0.1 | | | NR47 |
| Heptachlor epoxide | ug | <0.1 | <0.1 | | | NR47 |
| Aldrin | ug | <0.1 | <0.1 | | | NR47 |
| gamma-BHC(Lindane) | ug | <0.1 | <0.1 | | | NR47 |
| alpha-BHC | ug | <0.1 | <0.1 | | | NR47 |
| beta-BHC | ug | <0.1 | <0.1 | | | NR47 |
| delta-BHC | ug | <0.1 | <0.1 | | | NR47 |
| trans-Chlordane | ug | 0.39 | 0.54 | | | NR47 |
| cis-Chlordane | ug | 0.29 | 0.38 | | | NR47 |
| Oxychlordane | ug | <0.1 | <0.1 | | | NR47 |
| Dieldrin | ug | <0.1 | 0.41 | | | NR47 |
| p,p-DDE | ug | <0.1 | <0.1 | | | NR47 |
| p,p-DDD | ug | <0.1 | <0.1 | | | NR47 |
| p,p-DDT | ug | <0.1 | <0.1 | | | NR47 |
| Endrin | ug | <0.1 | <0.1 | | | NR47 |
| Endrin aldehyde | ug | <0.1 | <0.1 | | | NR47 |
| Endrin Ketone | ug | <0.1 | <0.1 | | | NR47 |
| alpha-Endosulfan | ug | <0.1 | <0.1 | | | NR47 |
| beta-Endosulfan | ug | <0.1 | <0.1 | | | NR47 |
| Endosulfan sulfate | ug | <0.1 | <0.1 | | | NR47 |
| Methoxychlor | ug | <0.1 | <0.1 | | | NR47 |
| Dicofol | ug | <0.1 | <0.1 | | | NR47 |
| **Dates** | | | | | | |
| Date extracted | | 26-SEP-2023 | 26-SEP-2023 | | | |
| Date analysed | | 28-SEP-2023 | 28-SEP-2023 | | | |

# REPORT OF ANALYSIS



N23/019335

Gabriela Saveluc, Analyst
Organics - NSW
Accreditation No. 198

05-OCT-2023

| **Lab Reg No.** | | **N23/019335** | **N23/019336** | | | |
|---|---|---|---|---|---|---|
| **Date Sampled** | | **Not Provided** | **Not Provided** | | | |
| **Sample Reference** | **Units** | **Q7540** | **Q7541** | | | **Method** |
| **Components** | | | | | | |
| Cartridge Preparation Charge | | Cartridge p | Cartridge p | | | |
| Consultation | | Particulate | Particulate | | | |

Alan Yates, Analyst
Australian Ultra Trace Laboratory
Accreditation No. 198

05-OCT-2023

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This Report supersedes reports: *RN1406684*

Measurement Uncertainty is available upon request.

Note: Sampling date(s) have been provided by the client.

Note: Where sampling dates are not provided NMI is unable to determine compliance to any applicable Holding Time requirements

# REPORT OF ANALYSIS



The testing was undertaken at: 105 Delhi Road, North Ryde, NSW, 2113

Australian Government
Department of Industry, Science and Resources

National Measurement Institute

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# REPORT OF ANALYSIS



Report No. RN1407053

| | | | |
|---|---|---|---|
| **Client** | : EKTIMO PTY LTD<br>52 COOPER ROAD<br>COCKBURN CENTRAL WA 6164 | **Job No.** | : EKTI01/230911/1 |
| | | **Quote No.** | : QT-02083 |
| | | **Order No.** | : |
| | | **Date Received** | : 11-SEP-2023 |
| **Attention** | : HENRY DIONA | **Sampled By** | : CLIENT |
| **Project Name** | : | | |
| **Your Client Services Manager** | : Tim Reddan | **Phone** | : 03 9644 4854 |

| Lab Reg No. | Sample Ref | Sample Description |
|---|---|---|
| N23/018574 | Q7538 | JOB NO. R015358 |
| N23/018575 | Q7539 | JOB NO. R015358 |

| Lab Reg No. | | N23/018574 | N23/018575 | | | |
|---|---|---|---|---|---|---|
| Date Sampled | | Not Provided | Not Provided | | | |
| Sample Reference | Units | Q7538 | Q7539 | | | Method |
| **Organochlorine (OC) Pesticides** | | | | | | |
| HCB | ug | <0.1 | <0.1 | | | NR47 |
| Heptachlor | ug | <0.1 | 0.14 | | | NR47 |
| Heptachlor epoxide | ug | <0.1 | <0.1 | | | NR47 |
| Aldrin | ug | <0.1 | <0.1 | | | NR47 |
| gamma-BHC(Lindane) | ug | <0.1 | <0.1 | | | NR47 |
| alpha-BHC | ug | <0.1 | <0.1 | | | NR47 |
| beta-BHC | ug | <0.1 | <0.1 | | | NR47 |
| delta-BHC | ug | <0.1 | <0.1 | | | NR47 |
| trans-Chlordane | ug | 0.69 | 0.85 | | | NR47 |
| cis-Chlordane | ug | 0.54 | 0.64 | | | NR47 |
| Oxychlordane | ug | <0.1 | <0.1 | | | NR47 |
| Dieldrin | ug | 1.2 | <0.1 | | | NR47 |
| p,p-DDE | ug | <0.1 | <0.1 | | | NR47 |
| p,p-DDD | ug | <0.1 | <0.1 | | | NR47 |
| p,p-DDT | ug | <0.1 | <0.1 | | | NR47 |
| Endrin | ug | <0.1 | <0.1 | | | NR47 |
| Endrin aldehyde | ug | <0.1 | <0.1 | | | NR47 |
| Endrin Ketone | ug | <0.1 | <0.1 | | | NR47 |
| alpha-Endosulfan | ug | <0.1 | <0.1 | | | NR47 |
| beta-Endosulfan | ug | <0.1 | <0.1 | | | NR47 |
| Endosulfan sulfate | ug | <0.1 | <0.1 | | | NR47 |
| Methoxychlor | ug | <0.1 | <0.1 | | | NR47 |
| Dicofol | ug | <0.1 | <0.1 | | | NR47 |
| **Dates** | | | | | | |
| Date extracted | | 26-SEP-2023 | 26-SEP-2023 | | | |
| Date analysed | | 28-SEP-2023 | 28-SEP-2023 | | | |

# REPORT OF ANALYSIS



Report No. RN1407053

| Lab Reg No. | | N23/018574 | N23/018575 | | | |
|---|---|---|---|---|---|---|
| Date Sampled | | Not Provided | Not Provided | | | |
| Sample Reference | Units | Q7538 | Q7539 | | | Method |

Gabriela Saveluc, Analyst
Organics - NSW
Accreditation No. 198

05-OCT-2023

| Lab Reg No. | | N23/018574 | N23/018575 | | | |
|---|---|---|---|---|---|---|
| Date Sampled | | Not Provided | Not Provided | | | |
| Sample Reference | Units | Q7538 | Q7539 | | | Method |
| **Components** | | | | | | |
| Cartridge Preparation Charge | | PUF prepara | PUF prepara | | | |
| Consultation | | Particulate | Particulate | | | |

Alan Yates, Analyst
Australian Ultra Trace Laboratory
Accreditation No. 198

05-OCT-2023

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This Report supersedes reports: *RN1406678*

Measurement Uncertainty is available upon request.

Note: Sampling date(s) have been provided by the client.

# REPORT OF ANALYSIS



The testing was undertaken at: 105 Delhi Road, North Ryde, NSW, 2113

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Department of Industry, Science and Resources

National Measurement Institute

NATA

# REPORT OF ANALYSIS



Report No. RN1409422

| | | | |
|---|---|---|---|
| **Client** | : EKTIMO PTY LTD<br>52 COOPER ROAD<br>COCKBURN CENTRAL WA 6164 | **Job No.** | : EKTI01/230928 |
| | | **Quote No.** | : QT-02083 |
| | | **Order No.** | : W012203 |
| | | **Date Received** | : 28-SEP-2023 |
| **Attention** | : JHON ARAQUE | **Sampled By** | : CLIENT |
| **Project Name** | : | | |
| **Your Client Services Manager** | : Tim Reddan | **Phone** | : |

| Lab Reg No. | Sample Ref | Sample Description |
|---|---|---|
| N23/019956 | Q7655 | JOB NO. R015358 |
| N23/019957 | Q7656 | JOB NO. R015358 |

| **Lab Reg No.** | | **N23/019956** | **N23/019957** | | | |
|---|---|---|---|---|---|---|
| **Date Sampled** | | **Not Provided** | **Not Provided** | | | |
| **Sample Reference** | **Units** | **Q7655** | **Q7656** | | | **Method** |
| **Organochlorine (OC) Pesticides** | | | | | | |
| HCB | ug | <0.1 | <0.1 | | | NR47 |
| Heptachlor | ug | <0.1 | <0.1 | | | NR47 |
| Heptachlor epoxide | ug | <0.1 | <0.1 | | | NR47 |
| Aldrin | ug | 0.11 | 0.22 | | | NR47 |
| gamma-BHC(Lindane) | ug | <0.1 | <0.1 | | | NR47 |
| alpha-BHC | ug | <0.1 | <0.1 | | | NR47 |
| beta-BHC | ug | <0.1 | <0.1 | | | NR47 |
| delta-BHC | ug | <0.1 | <0.1 | | | NR47 |
| trans-Chlordane | ug | <0.1 | 0.17 | | | NR47 |
| cis-Chlordane | ug | <0.1 | 0.13 | | | NR47 |
| Oxychlordane | ug | <0.1 | <0.1 | | | NR47 |
| Dieldrin | ug | 0.14 | 0.51 | | | NR47 |
| p,p-DDE | ug | <0.1 | <0.1 | | | NR47 |
| p,p-DDD | ug | <0.1 | <0.1 | | | NR47 |
| p,p-DDT | ug | <0.1 | <0.1 | | | NR47 |
| Endrin | ug | <0.1 | <0.1 | | | NR47 |
| Endrin aldehyde | ug | <0.1 | <0.1 | | | NR47 |
| Endrin Ketone | ug | <0.1 | <0.1 | | | NR47 |
| alpha-Endosulfan | ug | <0.1 | <0.1 | | | NR47 |
| beta-Endosulfan | ug | <0.1 | <0.1 | | | NR47 |
| Endosulfan sulfate | ug | <0.1 | <0.1 | | | NR47 |
| Methoxychlor | ug | <0.1 | <0.1 | | | NR47 |
| Dicofol | ug | <0.1 | <0.1 | | | NR47 |
| **Dates** | | | | | | |
| Date extracted | | 20-OCT-2023 | 20-OCT-2023 | | | |
| Date analysed | | 24-OCT-2023 | 24-OCT-2023 | | | |

# REPORT OF ANALYSIS



| Lab Reg No. | | N23/019956 | N23/019957 | | | |
|---|---|---|---|---|---|---|
| Date Sampled | | Not Provided | Not Provided | | | |
| Sample Reference | Units | Q7655 | Q7656 | | | Method |

Gabriela Saveluc, Analyst
Organics - NSW
Accreditation No. 198

30-OCT-2023

| Lab Reg No. | | N23/019956 | N23/019957 | | | |
|---|---|---|---|---|---|---|
| Date Sampled | | Not Provided | Not Provided | | | |
| Sample Reference | Units | Q7655 | Q7656 | | | Method |
| **Components** | | | | | | |
| Cartridge Preparation Charge | | PUF prepara | PUF prepara | | | |
| Consultation | | Particulate | Particulate | | | |

Alan Yates, Analyst
Australian Ultra Trace Laboratory
Accreditation No. 198

30-OCT-2023

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Note: Sampling date(s) have been provided by the client.

# REPORT OF ANALYSIS



The testing was undertaken at: 105 Delhi Road, North Ryde, NSW, 2113

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National Measurement Institute

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# REPORT OF ANALYSIS



Report No. RN1409427

| | | | |
|---|---|---|---|
| **Client** | : EKTIMO PTY LTD<br>52 COOPER ROAD<br>COCKBURN CENTRAL WA 6164 | **Job No.** | : EKTI01/231009/2 |
| | | **Quote No.** | : QT-02083 |
| | | **Order No.** | : W012272 |
| | | **Date Received** | : 09-OCT-2023 |
| **Attention** | : JHON ARAQUE | **Sampled By** | : CLIENT |
| **Project Name** | : | | |
| **Your Client Services Manager** | : Tim Reddan | **Phone** | : 03 9644 4854 |

| Lab Reg No. | Sample Ref | Sample Description |
|---|---|---|
| N23/020719 | Q7666 | FILTER (AUT-PF6) + PUF(AUT230816C) JOB NO R015358 |
| N23/020720 | Q7667 | FILTER (AUT-PF5) + PUF(AUT230816E) JOB NO R015358 |

| **Lab Reg No.** | | **N23/020719** | **N23/020720** | | | |
|---|---|---|---|---|---|---|
| **Date Sampled** | | **Not Provided** | **Not Provided** | | | |
| **Sample Reference** | **Units** | **Q7666** | **Q7667** | | | **Method** |
| **Organochlorine (OC) Pesticides** | | | | | | |
| HCB | ug | <0.1 | <0.1 | | | NR47 |
| Heptachlor | ug | <0.1 | 0.13 | | | NR47 |
| Heptachlor epoxide | ug | <0.1 | <0.1 | | | NR47 |
| Aldrin | ug | <0.1 | <0.1 | | | NR47 |
| gamma-BHC(Lindane) | ug | <0.1 | <0.1 | | | NR47 |
| alpha-BHC | ug | <0.1 | <0.1 | | | NR47 |
| beta-BHC | ug | <0.1 | <0.1 | | | NR47 |
| delta-BHC | ug | <0.1 | <0.1 | | | NR47 |
| trans-Chlordane | ug | 0.25 | 0.53 | | | NR47 |
| cis-Chlordane | ug | 0.18 | 0.38 | | | NR47 |
| Oxychlordane | ug | <0.1 | <0.1 | | | NR47 |
| Dieldrin | ug | 0.37 | 0.21 | | | NR47 |
| p,p-DDE | ug | <0.1 | <0.1 | | | NR47 |
| p,p-DDD | ug | <0.1 | <0.1 | | | NR47 |
| p,p-DDT | ug | <0.1 | <0.1 | | | NR47 |
| Endrin | ug | <0.1 | <0.1 | | | NR47 |
| Endrin aldehyde | ug | <0.1 | <0.1 | | | NR47 |
| Endrin Ketone | ug | <0.1 | <0.1 | | | NR47 |
| alpha-Endosulfan | ug | <0.1 | <0.1 | | | NR47 |
| beta-Endosulfan | ug | <0.1 | <0.1 | | | NR47 |
| Endosulfan sulfate | ug | <0.1 | <0.1 | | | NR47 |
| Methoxychlor | ug | <0.1 | <0.1 | | | NR47 |
| Dicofol | ug | <0.1 | <0.1 | | | NR47 |
| **Dates** | | | | | | |
| Date extracted | | 20-OCT-2023 | 20-OCT-2023 | | | |
| Date analysed | | 24-OCT-2023 | 24-OCT-2023 | | | |

# REPORT OF ANALYSIS



| Lab Reg No. | | N23/020719 | N23/020720 | | | |
|---|---|---|---|---|---|---|
| Date Sampled | | Not Provided | Not Provided | | | |
| Sample Reference | Units | Q7666 | Q7667 | | | Method |

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Organics - NSW
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30-OCT-2023

| Lab Reg No. | | N23/020719 | N23/020720 | | | |
|---|---|---|---|---|---|---|
| Date Sampled | | Not Provided | Not Provided | | | |
| Sample Reference | Units | Q7666 | Q7667 | | | Method |
| **Components** | | | | | | |
| Cartridge Preparation Charge | | PUF prepara | PUF prepara | | | |
| Consultation | | Particulate | Particulate | | | |

Alan Yates, Analyst
Australian Ultra Trace Laboratory
Accreditation No. 198

30-OCT-2023

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Measurement Uncertainty is available upon request.

Note: Sampling date(s) have been provided by the client.

# REPORT OF ANALYSIS



The testing was undertaken at: 105 Delhi Road, North Ryde, NSW, 2113

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# REPORT OF ANALYSIS



Report No. RN1410826

| | | | |
|---|---|---|---|
| **Client** | : EKTIMO PTY LTD<br>52 COOPER ROAD<br>COCKBURN CENTRAL WA 6164 | **Job No.** | : EKTI01/231018/1 |
| | | **Quote No.** | : QT-02083 |
| | | **Order No.** | : W012272 |
| | | **Date Received** | : 18-OCT-2023 |
| **Attention** | : JHON ARAQUE | **Sampled By** | : CLIENT |
| **Project Name** | : | | |
| **Your Client Services Manager** | : Tim Reddan | **Phone** | : |

| Lab Reg No. | Sample Ref | Sample Description |
|---|---|---|
| N23/021848 | Q7688 | JOB NO. R015358 |
| N23/021849 | Q7689 | JOB NO. R015358 |

| **Lab Reg No.** | | **N23/021848** | **N23/021849** | | | |
|---|---|---|---|---|---|---|
| **Date Sampled** | | **Not Provided** | **Not Provided** | | | |
| **Sample Reference** | **Units** | **Q7688** | **Q7689** | | | **Method** |
| **Organochlorine (OC) Pesticides** | | | | | | |
| HCB | ug | <0.1 | <0.1 | | | NR47 |
| Heptachlor | ug | <0.1 | 0.15 | | | NR47 |
| Heptachlor epoxide | ug | <0.1 | <0.1 | | | NR47 |
| Aldrin | ug | <0.1 | <0.1 | | | NR47 |
| gamma-BHC(Lindane) | ug | <0.1 | <0.1 | | | NR47 |
| alpha-BHC | ug | <0.1 | <0.1 | | | NR47 |
| beta-BHC | ug | <0.1 | <0.1 | | | NR47 |
| delta-BHC | ug | <0.1 | <0.1 | | | NR47 |
| trans-Chlordane | ug | <0.1 | 0.63 | | | NR47 |
| cis-Chlordane | ug | <0.1 | 0.43 | | | NR47 |
| Oxychlordane | ug | <0.1 | <0.1 | | | NR47 |
| Dieldrin | ug | <0.1 | <0.1 | | | NR47 |
| p,p-DDE | ug | <0.1 | <0.1 | | | NR47 |
| p,p-DDD | ug | <0.1 | <0.1 | | | NR47 |
| p,p-DDT | ug | <0.1 | <0.1 | | | NR47 |
| Endrin | ug | <0.1 | <0.1 | | | NR47 |
| Endrin aldehyde | ug | <0.1 | <0.1 | | | NR47 |
| Endrin Ketone | ug | <0.1 | <0.1 | | | NR47 |
| alpha-Endosulfan | ug | <0.1 | <0.1 | | | NR47 |
| beta-Endosulfan | ug | <0.1 | <0.1 | | | NR47 |
| Endosulfan sulfate | ug | <0.1 | <0.1 | | | NR47 |
| Methoxychlor | ug | <0.1 | <0.1 | | | NR47 |
| Dicofol | ug | <0.1 | <0.1 | | | NR47 |
| **Dates** | | | | | | |
| Date extracted | | 1-NOV-2023 | 1-NOV-2023 | | | |
| Date analysed | | 3-NOV-2023 | 3-NOV-2023 | | | |

# REPORT OF ANALYSIS



Report No. RN1410826

| Lab Reg No. | | N23/021848 | N23/021849 | | | |
|---|---|---|---|---|---|---|
| Date Sampled | | Not Provided | Not Provided | | | |
| Sample Reference | Units | Q7688 | Q7689 | | | Method |

Gabriela Saveluc, Analyst
Organics - NSW
Accreditation No. 198

14-NOV-2023

| Lab Reg No. | | N23/021848 | N23/021849 | | | |
|---|---|---|---|---|---|---|
| Date Sampled | | Not Provided | Not Provided | | | |
| Sample Reference | Units | Q7688 | Q7689 | | | Method |
| **Components** | | | | | | |
| Cartridge Preparation Charge | | PUF prepara | PUF prepara | | | |
| Consultation | | Particulate | Particulate | | | |

Alan Yates, Analyst
Australian Ultra Trace Laboratory
Accreditation No. 198

14-NOV-2023

NATA
WORLD RECOGNISED
ACCREDITATION

Accredited for compliance with ISO/IEC 17025 - Testing.
This report shall not be reproduced except in full.
Results relate only to the sample(s) as received and tested.

This Report supersedes reports: *RN1410385*

Measurement Uncertainty is available upon request.

Note: Sampling date(s) have been provided by the client.

# REPORT OF ANALYSIS



The testing was undertaken at: 105 Delhi Road, North Ryde, NSW, 2113

Australian Government
Department of Industry, Science and Resources

National Measurement Institute

NATA

# REPORT OF ANALYSIS



Report No. RN1410977

| | | | |
|---|---|---|---|
| **Client** | : EKTIMO PTY LTD<br>52 COOPER ROAD<br>COCKBURN CENTRAL WA 6164 | **Job No.** | : EKTI01/231026 |
| | | **Quote No.** | : QT-02083 |
| | | **Order No.** | : W012394 |
| | | **Date Received** | : 26-OCT-2023 |
| **Attention** | : JHON ARAQUE | **Sampled By** | : CLIENT |
| **Project Name** | : | | |
| **Your Client Services Manager** | : Tim Reddan | **Phone** | : 03 9644 4854 |

| Lab Reg No. | Sample Ref | Sample Description |
|---|---|---|
| N23/022524 | Q7724 | FILTER (AUT_PF13) + PUF (AUT230816C) JOB NO. R015886 |
| N23/022525 | Q7725 | FILTER (AUT_PF9) + PUF (AUT230816A) JOB NO. R015886 |

| Lab Reg No. | | N23/022524 | N23/022525 | | | |
|---|---|---|---|---|---|---|
| Date Sampled | | Not Provided | Not Provided | | | |
| Sample Reference | Units | Q7724 | Q7725 | | | Method |
| **Organochlorine (OC) Pesticides** | | | | | | |
| HCB | ug | <0.1 | <0.1 | | | NR47 |
| Heptachlor | ug | <0.1 | <0.1 | | | NR47 |
| Heptachlor epoxide | ug | <0.1 | <0.1 | | | NR47 |
| Aldrin | ug | <0.1 | <0.1 | | | NR47 |
| gamma-BHC(Lindane) | ug | <0.1 | <0.1 | | | NR47 |
| alpha-BHC | ug | <0.1 | <0.1 | | | NR47 |
| beta-BHC | ug | <0.1 | <0.1 | | | NR47 |
| delta-BHC | ug | <0.1 | <0.1 | | | NR47 |
| trans-Chlordane | ug | <0.1 | 0.29 | | | NR47 |
| cis-Chlordane | ug | <0.1 | 0.19 | | | NR47 |
| Oxychlordane | ug | <0.1 | <0.1 | | | NR47 |
| Dieldrin | ug | <0.1 | <0.1 | | | NR47 |
| p,p-DDE | ug | <0.1 | <0.1 | | | NR47 |
| p,p-DDD | ug | <0.1 | <0.1 | | | NR47 |
| p,p-DDT | ug | <0.1 | <0.1 | | | NR47 |
| Endrin | ug | <0.1 | <0.1 | | | NR47 |
| Endrin aldehyde | ug | <0.1 | <0.1 | | | NR47 |
| Endrin Ketone | ug | <0.1 | <0.1 | | | NR47 |
| alpha-Endosulfan | ug | <0.1 | <0.1 | | | NR47 |
| beta-Endosulfan | ug | <0.1 | <0.1 | | | NR47 |
| Endosulfan sulfate | ug | <0.1 | <0.1 | | | NR47 |
| Methoxychlor | ug | <0.1 | <0.1 | | | NR47 |
| Dicofol | ug | <0.1 | <0.1 | | | NR47 |
| **Dates** | | | | | | |
| Date extracted | | 7-NOV-2023 | 7-NOV-2023 | | | |
| Date analysed | | 14-NOV-2023 | 14-NOV-2023 | | | |

# REPORT OF ANALYSIS



Report No. RN1410977

| Lab Reg No. | | N23/022524 | N23/022525 | | | |
|---|---|---|---|---|---|---|
| Date Sampled | | Not Provided | Not Provided | | | |
| Sample Reference | Units | Q7724 | Q7725 | | | Method |

Luke Baker, Analyst
Organics - NSW
Accreditation No. 198

15-NOV-2023

| Lab Reg No. | | N23/022524 | N23/022525 | | | |
|---|---|---|---|---|---|---|
| Date Sampled | | Not Provided | Not Provided | | | |
| Sample Reference | Units | Q7724 | Q7725 | | | Method |
| **Components** | | | | | | |
| Cartridge Preparation Charge | | Preparation | Preparation | | | |
| Consultation | | Particulate | Particulate | | | |

N23/022524

Gavin Stevenson, Analyst
Australian Ultra Trace Laboratory
Accreditation No. 198

15-NOV-2023

# REPORT OF ANALYSIS



Report No. RN1410977

| | | | |
|---|---|---|---|
| **Client** | : EKTIMO PTY LTD<br>52 COOPER ROAD<br>COCKBURN CENTRAL WA 6164 | **Job No.** | : EKTI01/231026 |
| | | **Quote No.** | : QT-02083 |
| | | **Order No.** | : W012394 |
| | | **Date Received** | : 26-OCT-2023 |
| **Attention** | : JHON ARAQUE | **Sampled By** | : CLIENT |
| **Project Name** | : | | |
| **Your Client Services Manager** | : Tim Reddan | **Phone** | : 03 9644 4854 |

| Lab Reg No. | Sample Ref | Sample Description |
|---|---|---|
| N23/022526 | Q7726 | FILTER (AUT_PF14) + PUF (AUT230816E) JOB NO. R015886 |

| **Lab Reg No.** | | | **N23/022526** | | | | |
|---|---|---|---|---|---|---|---|
| **Date Sampled** | | | **Not Provided** | | | | |
| **Sample Reference** | | **Units** | **Q7726** | | | | **Method** |
| **Organochlorine (OC) Pesticides** | | | | | | | |
| HCB | | ug | <0.1 | | | | NR47 |
| Heptachlor | | ug | <0.1 | | | | NR47 |
| Heptachlor epoxide | | ug | <0.1 | | | | NR47 |
| Aldrin | | ug | <0.1 | | | | NR47 |
| gamma-BHC(Lindane) | | ug | <0.1 | | | | NR47 |
| alpha-BHC | | ug | <0.1 | | | | NR47 |
| beta-BHC | | ug | <0.1 | | | | NR47 |
| delta-BHC | | ug | <0.1 | | | | NR47 |
| trans-Chlordane | | ug | <0.1 | | | | NR47 |
| cis-Chlordane | | ug | <0.1 | | | | NR47 |
| Oxychlordane | | ug | <0.1 | | | | NR47 |
| Dieldrin | | ug | <0.1 | | | | NR47 |
| p,p-DDE | | ug | <0.1 | | | | NR47 |
| p,p-DDD | | ug | <0.1 | | | | NR47 |
| p,p-DDT | | ug | <0.1 | | | | NR47 |
| Endrin | | ug | <0.1 | | | | NR47 |
| Endrin aldehyde | | ug | <0.1 | | | | NR47 |
| Endrin Ketone | | ug | <0.1 | | | | NR47 |
| alpha-Endosulfan | | ug | <0.1 | | | | NR47 |
| beta-Endosulfan | | ug | <0.1 | | | | NR47 |
| Endosulfan sulfate | | ug | <0.1 | | | | NR47 |
| Methoxychlor | | ug | <0.1 | | | | NR47 |
| Dicofol | | ug | <0.1 | | | | NR47 |
| **Dates** | | | | | | | |
| Date extracted | | | 7-NOV-2023 | | | | |
| Date analysed | | | 14-NOV-2023 | | | | |

# REPORT OF ANALYSIS



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Lab Reg No.** | | | **N23/022526** | | | | |
| **Date Sampled** | | | **Not Provided** | | | | |
| **Sample Reference** | | **Units** | **Q7726** | | | | **Method** |

Luke Baker, Analyst
Organics - NSW
Accreditation No. 198

15-NOV-2023

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Lab Reg No.** | | | **N23/022526** | | | | |
| **Date Sampled** | | | **Not Provided** | | | | |
| **Sample Reference** | | **Units** | **Q7726** | | | | **Method** |
| **Components** | | | | | | | |
| Cartridge Preparation Charge | | | Preparation | | | | |

Gavin Stevenson, Analyst
Australian Ultra Trace Laboratory
Accreditation No. 198

15-NOV-2023

# REPORT OF ANALYSIS



Report No. RN1410977

| | | | |
|---|---|---|---|
| **Client** | : EKTIMO PTY LTD<br>52 COOPER ROAD<br>COCKBURN CENTRAL WA 6164 | **Job No.** | : EKTI01/231026 |
| | | **Quote No.** | : QT-02083 |
| | | **Order No.** | : W012394 |
| | | **Date Received** | : 26-OCT-2023 |
| **Attention** | : JHON ARAQUE | **Sampled By** | : CLIENT |
| **Project Name** | : | | |
| **Your Client Services Manager** | : Tim Reddan | **Phone** | : 03 9644 4854 |

| Lab Reg No. | Sample Ref | Sample Description |
|---|---|---|
| N23/022527 | AUT230803G | FIELD BLANK |

| Lab Reg No. | | Units | N23/022527 | | | | Method |
|---|---|---|---|---|---|---|---|
| Date Sampled | | | Not Provided | | | | |
| Sample Reference | | | AUT230803G | | | | |
| **Components** | | | | | | | |
| Cartridge Preparation Charge | | | Preparation | | | | |

Alan Yates, Analyst
Australian Ultra Trace Laboratory
Accreditation No. 198

15-NOV-2023

NATA
WORLD RECOGNISED
ACCREDITATION

Accredited for compliance with ISO/IEC 17025 - Testing.
This report shall not be reproduced except in full.
Results relate only to the sample(s) as received and tested.

Measurement Uncertainty is available upon request.

Note: Sampling date(s) have been provided by the client.

Note: Where sampling dates are not provided NMI is unable to determine compliance to any applicable Holding Time requirements

# REPORT OF ANALYSIS



The testing was undertaken at: 105 Delhi Road, North Ryde, NSW, 2113

Ektimo

ektimo.com.au
1300 364 005

**MELBOURNE** (Head Office)
26 Redland Drive
Mitcham
VIC 3132
AUSTRALIA

**SYDNEY**
6/78 Reserve Road
Artarmon
NSW 2064
AUSTRALIA

**WOLLONGONG**
1/251 Princes Highway
Unanderra
NSW 2526
AUSTRALIA

**PERTH**
52 Cooper Road
Cockburn Central
WA 6164
AUSTRALIA

**BRISBANE**
3/109 Riverside Place
Morningside
QLD 4170
AUSTRALIA

## I.2 ABESTOS AIR MONITORING REPORTS

# Analytical Report

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** -

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 01/08/2023

**Date Analysed:** 01/08/2023

**Date Authorised** 01/08/2023

**Sampled by:** Todd Hastie (supervised by Laura Smith)

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Laura Smith

**Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH635219 | Int, North west corner of work area, lunch room, on switch box | 2 | 100 | <0.01 |
| DH639087 | Ext, N elevation of work area, adjacent to neighbouring properties, on fencing | 1 | 100 | <0.01 |
| DH638630 | Ext, E elevation of work area, adjacent to neighbouring properties, on fencing | 1 | 100 | <0.01 |
| DH638632 | Ext, W elevation of work area, adjacent to Newdegate St, on fencing | 1 | 100 | <0.01 |
| DH639118 | Ext, S elevation of work area, adjacent to Headfort St, on fencing | 1 | 100 | <0.01 |
| DH639108 - Field Blank | - | 0 | 100 | - |

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*Tetra Tech Coffey Pty Ltd ABN 55 139 460 521*
*Level 19, Tower B, Citadel Towers, 799 Pacific Hwy, Chatswood, NSW 2067 Australia*
*T (+61) (2) 9406 1000 F (+61) (2) 9406 1004 coffey.com*

# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 01/09/2023

**Date Analysed:** 01/09/2023

**Date Authorised** 01/09/2023

**Sampled by:** Laura Smith

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Laura Smith **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH639027 | Excavator cab, top left hand side of front windscreen, on handle | 0 | 100 | <0.01 |
| DH638999 | Decontamination unit, outside clean end, on handle | 0 | 100 | <0.01 |
| DH639023 | Positrack cab, top centre of rear windscreen, on handle | 1 | 100 | <0.01 |
| DH639010 | Int, North west corner of site, lunch room, on switch box | 0 | 100 | <0.01 |
| DH639024 | Ext, W elevation site boundary, adjacent to Newdegate St, on fencing | 0 | 100 | <0.01 |
| DH639020 | Ext, N elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH639003 | Ext, E elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH639009 | Ext, S elevation site boundary, adjacent to Headfort St, on fencing | 0 | 100 | <0.01 |
| DH635206 | Field Blank | 0 | 100 | - |

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*T (+61) (2) 9406 1000 F (+61) (2) 9406 1004 coffey.com*

# Analytical Report

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** -

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 02/08/2023

**Date Analysed:** 02/08/2023

**Date Authorised** 02/08/2023

**Sampled by:** Todd Hastie (supervised by Laura Smith)

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Laura Smith

**Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH638618 | Int, North west corner of work area, lunch room, on switch box | 2 | 100 | <0.01 |
| DH638616 | Ext, N elevation of work area, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH638628 | Ext, E elevation of work area, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH638611 | Ext, S elevation of work area, adjacent to Headfort St, on fencing | 0 | 100 | <0.01 |
| DH638621 | Ext, W elevation of work area, adjacent to Newdegate St, on fencing | 2 | 100 | <0.01 |
| DH638617 - Field Blank | - | 0 | 100 | - |

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*T (+61) (2) 9406 1000 F (+61) (2) 9406 1004 coffey.com*

# Analytical Report

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** -

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 03/08/2023

**Date Analysed:** 03/08/2023

**Date Authorised** 03/08/2023

**Sampled by:** Todd Hastie (supervised by Laura Smith)

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Laura Smith

**Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH638625 | Int, North west corner of work area, lunch room, on switch box | 2 | 100 | <0.01 |
| DH638623 | Ext, N elevation of work area, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH638642 | Ext, E elevation of work area, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH638622 | Ext, S elevation of work area, adjacent to Headfort St, on fencing | 0 | 100 | <0.01 |
| DH638637 | Ext, W elevation of work area, adjacent to Newdegate St, on fencing | 0 | 100 | <0.01 |
| DH638627 - Field Blank | - | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 03/10/2023

**Date Analysed:** 03/10/2023

**Date Authorised** 03/10/2023

**Sampled by:** Laura Smith

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Laura Smith **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH635284 | Excavator cab, top right hand side of front windscreen, on handle | 2 | 100 | <0.01 |
| DH635293 | Int, North west corner of site, lunch room, on switch box | 0 | 100 | <0.01 |
| DH635260 | Ext, N elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH635301 | Ext, SE elevation, adjacent work area, next to decon unit, on bollard | 0 | 100 | <0.01 |
| DH635292 | Ext, SW elevation site boundary, adjacent to Headfort St, on fence | 0 | 100 | <0.01 |
| DH635291 | Ext, W elevation site boundary, adjacent to Newdegate St, on fencing | 0 | 100 | <0.01 |
| DH635258 | Field Blank | 0 | 100 | - |

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# Analytical Report

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** -

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 04/08/2023

**Date Analysed:** 05/08/2023

**Date Authorised** 05/08/2023

**Sampled by:** Todd Hastie (supervised by Laura Smith)

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Laura Smith **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH638615 | Int, North west corner of work area, lunch room, on switch box | 2 | 100 | <0.01 |
| DH638620 | Ext, N elevation of work area, adjacent to neighbouring properties, on fencing | 1 | 100 | <0.01 |
| DH638673 | Ext, E elevation of work area, adjacent to neighbouring properties, on fencing | 1 | 100 | <0.01 |
| DH638612 | Ext, S elevation of work area, adjacent to Headfort St, on fencing | 1 | 100 | <0.01 |
| DH638613 | Ext, W elevation of work area, adjacent to Newdegate St, on fencing | 1 | 100 | <0.01 |
| DH638609 - Field Blank | - | 0 | 100 | - |

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*T (+61) (2) 9406 1000 F (+61) (2) 9406 1004 coffey.com*

# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 04/09/2023

**Date Analysed:** 04/09/2023

**Date Authorised** 04/09/2023

**Sampled by:** Patricy Cortes

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Patricy Cortes **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH635503 | Excavator cab, top left hand side of front windscreen, on handle | 0 | 100 | <0.01 |
| DH635516 | Int, North west corner of site, lunch room, on switch box | 1 | 100 | <0.01 |
| DH635484 | Ext, W elevation site boundary, adjacent to Newdegate St, on fencing | 0 | 100 | <0.01 |
| DH635481 | Decontamination unit, outside clean end, on handle | 0 | 100 | <0.01 |
| DH635501 | Ext, N elevation site boundary, adjacent to neighbouring properties, on fencing | 0.5 | 100 | <0.01 |
| DH635495 | Ext, E elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH635489 | Ext, S elevation site boundary, adjacent to Headfort St, on fencing | 0 | 100 | <0.01 |
| DH635482 | Field Blank | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 04/10/2023

**Date Analysed:** 04/10/2023

**Date Authorised** 04/10/2023

**Sampled by:** Laura Smith

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Laura Smith **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH635309 | Excavator cab, top right hand side of front windscreen, on handle | 1 | 100 | <0.01 |
| DH635296 | Int, North west corner of site, lunch room, on switch box | 0 | 100 | <0.01 |
| DH635259 | Ext, N elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH635262 | Ext, SE elevation, adjacent work area, next to decon unit, on bollard | 0 | 100 | <0.01 |
| DH635300 | Ext, SW elevation site boundary, adjacent to Headfort St, on fence | 0 | 100 | <0.01 |
| DH635263 | Ext, W elevation site boundary, adjacent to Newdegate St, on fencing | 0 | 100 | <0.01 |
| DH635288 | Field Blank | 0 | 100 | - |

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*T (+61) (2) 9406 1000 F (+61) (2) 9406 1004 coffey.com*

# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 05/09/2023

**Date Analysed:** 05/09/2023

**Date Authorised** 05/09/2023

**Sampled by:** Patricy Cortes

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Patricy Cortes **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH635475 | Decontamination unit, outside clean end, on handle | 0 | 100 | <0.01 |
| DH635498 | Excavator cab, top left hand side of front windscreen, on handle | 0 | 100 | <0.01 |
| DH635490 | Int, North west corner of site, lunch room, on switch box | 1 | 100 | <0.01 |
| DH635487 | Ext, N elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH635486 | Ext, W elevation site boundary, adjacent to Newdegate St, on fencing | 0 | 100 | <0.01 |
| DH635488 | Ext, S elevation site boundary, adjacent to Headfort St, on fencing | 0 | 100 | <0.01 |
| DH635522 | Ext, E elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| Field Blank | - | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 05/10/2023

**Date Analysed:** 05/10/2023

**Date Authorised** 05/10/2023

**Sampled by:** Laura Smith

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD

**Approved Counter:** Laura Smith **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH635264 | Excavator cab, top right hand side of front windscreen, on handle | 1 | 100 | <0.01 |
| DH635294 | Int, North west corner of site, lunch room, on switch box | 0 | 100 | <0.01 |
| DH635257 | Ext, SE elevation, adjacent work area, next to decon unit, on bollard | 0 | 100 | <0.01 |
| DH635286 | Ext, NW elevation, adjacent to work area, on bollard | 0 | 100 | <0.01 |
| DH635295 | Ext, SW elevation, adjacent to corner of Newdegate St and Headfort St, on bollard | 0 | 100 | <0.01 |
| DH635299 | Ext, centre of site, on bollard | 0 | 100 | <0.01 |
| DH635315 | Field Blank | 0 | 100 | - |

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# Analytical Report

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 06/09/2023

**Date Analysed:** 06/09/2023

**Date Authorised** 06/09/2023

**Sampled by:** Patricy Cortes

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Patricy Cortes

**Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH635500 | Int, North west corner of site, lunch room, on switch box | 0 | 100 | <0.01 |
| DH635485 | Decontamination unit, outside clean end, on handle | 0 | 100 | <0.01 |
| DH635533 | Ext, E elevation site boundary, adjacent to neighbouring properties, on fencing | 0.5 | 100 | <0.01 |
| DH635480 | Ext, W elevation site boundary, adjacent to Newdegate St, on fencing | 0 | 100 | <0.01 |
| DH635515 | Ext, N elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH635491 | Excavator cab, top left hand side of front windscreen, on handle | 0 | 100 | <0.01 |
| DH635499 | Ext, S elevation site boundary, adjacent to Headfort St, on fencing | 0 | 100 | <0.01 |
| Field Blank | - | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 06/10/2023

**Date Analysed:** 06/10/2023

**Date Authorised** 06/10/2023

**Sampled by:** Laura Smith

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD

**Approved Counter:** Laura Smith **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH635310 | Excavator cab, top right hand side of front windscreen, on handle | 1 | 100 | <0.01 |
| DH635320 | Int, south elevation, lunch room, on switch box | 0 | 100 | <0.01 |
| DH635323 | Ext, SW elevation, adjacent to corner of Newdegate St and Headfort St, on bollard | 0 | 100 | <0.01 |
| DH635305 | Ext, centre of site, on bollard | 0 | 100 | <0.01 |
| DH635322 | Ext, NW elevation, adjacent to work area, on bollard | 0 | 100 | <0.01 |
| DH635303 | Ext, SE elevation, adjacent work area, next to decon unit, on bollard | 0 | 100 | <0.01 |
| DH635311 | Field Blank | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 07/09/2023

**Date Analysed:** 07/09/2023

**Date Authorised** 07/09/2023

**Sampled by:** Patricy Cortes

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Patricy Cortes **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| 007599 | Decontamination unit, outside clean end, on handle | 0 | 100 | <0.01 |
| 007600 | Excavator cab, top left hand side of front windscreen, on handle | 0 | 100 | <0.01 |
| 007598 | Positrack cab, top centre of rear windscreen, on handle | 0 | 100 | <0.01 |
| 007597 | Ext, E elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| 085461 | Int, North west corner of site, lunch room, on switch box | 0 | 100 | <0.01 |
| 007589 | Ext, N elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| 007588 | Ext, S elevation site boundary, adjacent to Headfort St, on fencing | 0 | 100 | <0.01 |
| 007587 | Ext, W elevation site boundary, adjacent to Newdegate St, on fencing | 0 | 100 | <0.01 |
| FB | - | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 08/08/2023

**Date Analysed:** 08/08/2023

**Date Authorised** 08/08/2023

**Sampled by:** Todd Hastie (supervised by Laura Smith)

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Laura Smith **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH638604 | Int, North west corner of work area, lunch room, on switch box | 2 | 100 | <0.01 |
| DH638587 | Ext, N elevation of work area, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH638564 | Ext, E elevation of work area, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH638597 | Ext, S elevation of work area, adjacent to Headfort St, on fencing | 0 | 100 | <0.01 |
| DH638573 | Ext, W elevation of work area, adjacent to Newdegate St, on fencing | 0 | 100 | <0.01 |
| DH638584 - Field Blank | - | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with
ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 09/10/2023

**Date Analysed:** 09/10/2023

**Date Authorised** 09/10/2023

**Sampled by:** Laura Smith

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD

**Approved Counter:** Laura Smith **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DI466435 | Ext, SE elevation, between supervisors office and decon unit, on bollard | 0 | 100 | <0.01 |
| DI463734 | Int, south elevation, lunch room, on switch box | 0 | 100 | <0.01 |
| DI466417 | Ext, SW elevation, adjacent to corner of Newdegate St and Headfort St, on bollard | 0 | 100 | <0.01 |
| DI463496 | Ext, centre of site, on bollard | 0 | 100 | <0.01 |
| DI466460 | Ext, NW elevation, on bollard | 0 | 100 | <0.01 |
| DI463661 | Mini digger, left hand side of drivers seat, on hook | 0 | 100 | <0.01 |
| DI466418 | Excavator cab, right hand side of front windscreen, on handle | 0 | 100 | <0.01 |
| DI463551 | Int, Enviropacific five stage decontamination unit, middle stage, on clothes hook, clearance monitoring | 0 | 100 | <0.01 |
| DI466503 | Field Blank | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 10/08/2023

**Date Analysed:** 10/08/2023

**Date Authorised** 10/08/2023

**Sampled by:** Todd Hastie (supervised by Laura Smith)

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Laura Smith **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH638626 | Int, North west corner of work area, lunch room, on switch box | 0 | 100 | <0.01 |
| DH638639 | Ext, N elevation of work area, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH638640 | Ext, E elevation of work area, adjacent to neighbouring properties, on fencing | 1 | 100 | <0.01 |
| DH638619 | Ext, S elevation of work area, adjacent to Headfort St, on fencing | 1 | 100 | <0.01 |
| DH638629 | Ext, W elevation of work area, adjacent to Newdegate St, on fencing | 1 | 100 | <0.01 |
| DH638633 - Field Blank | - | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with
ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 10/10/2023

**Date Analysed:** 10/10/2023

**Date Authorised** 10/10/2023

**Sampled by:** Laura Smith

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD

**Approved Counter:** Laura Smith **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DI463827 | Mini digger, left hand side of drivers seat, on hook | 2 | 100 | <0.01 |
| DI466489 | Excavator cab, right hand side of front windscreen, on handle | 0 | 100 | <0.01 |
| DI463767 | Int, south elevation, lunch room, on switch box | 0 | 100 | <0.01 |
| DI466446 | Ext, SW elevation, adjacent to corner of Newdegate St and Headfort St, on bollard | 0 | 100 | <0.01 |
| DI466466 | Ext, S elevation, outside supervisors office, on bollard | 0 | 100 | <0.01 |
| DI466475 | Ext, E elevation, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DI466481 | Ext, W elevation, adjacent to Newdegate Street, on fencing | 0 | 100 | <0.01 |
| DI466468 | Field Blank | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 11/08/2023

**Date Analysed:** 11/08/2023

**Date Authorised** 11/08/2023

**Sampled by:** Todd Hastie (supervised by Laura Smith)

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Laura Smith **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH638610 | Int, North west corner of work area, lunch room, on switch box | 2 | 100 | <0.01 |
| DH638550 | Ext, N elevation of work area, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH638641 | Ext, E elevation of work area, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH638638 | Ext, S elevation of work area, adjacent to Headfort St, on fencing | 1 | 100 | <0.01 |
| DH638634 | Ext, W elevation of work area, adjacent to Newdegate St, on fencing | 0 | 100 | <0.01 |
| DH638583 - Field Blank | - | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 11/09/2023

**Date Analysed:** 11/09/2023

**Date Authorised** 11/09/2023

**Sampled by:** Patricy Cortes

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Patricy Cortes **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH635492 | Int, North west corner of site, lunch room, on switch box | 1.5 | 100 | <0.01 |
| DH635512 | Ext, N elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH635520 | Decontamination unit, outside clean end, on handle | 0 | 100 | <0.01 |
| DH635506 | Excavator cab, top left hand side of front windscreen, on handle | 0 | 100 | <0.01 |
| DH635916 | Ext, E elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| 085486 | Ext, W elevation site boundary, adjacent to Newdegate St, on fencing | 0 | 100 | <0.01 |
| 007593 | Ext, S elevation site boundary, adjacent to Headfort St, on fencing | 0 | 100 | <0.01 |
| FB | - | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with
ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 11/10/2023

**Date Analysed:** 11/10/2023

**Date Authorised** 11/10/2023

**Sampled by:** Laura Smith

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD

**Approved Counter:** Laura Smith **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DI463616 | Excavator cab, right hand side of front windscreen, on handle | 1 | 100 | <0.01 |
| DI466638 | Int, south elevation, lunch room, on switch box | 0 | 100 | <0.01 |
| DI466476 | Ext, SW elevation, adjacent to corner of Newdegate St and Headfort St, on bollard | 0 | 100 | <0.01 |
| DI467286 | Ext, S elevation, outside supervisors office, on bollard | 1 | 100 | <0.01 |
| DI466439 | Ext, E elevation, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DI466636 | Mini digger, left hand side of drivers seat, on hook | 0 | 100 | <0.01 |
| DI467336 | Ext, W elevation, adjacent to Newdegate Street, on fencing | 0 | 100 | <0.01 |
| DI467319 | Field Blank | 0 | 100 | - |

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*Level 19, Tower B, Citadel Towers, 799 Pacific Hwy, Chatswood, NSW 2067 Australia*
*T (+61) (2) 9406 1000 F (+61) (2) 9406 1004 coffey.com*

# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 12/09/2023

**Date Analysed:** 12/09/2023

**Date Authorised** 12/09/2023

**Sampled by:** Patricy Cortes

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Patricy Cortes **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| 007592 | Int, North west corner of site, lunch room, on switch box | 0 | 100 | <0.01 |
| 085466 | Ext, E elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH635505 | Excavator cab, top left hand side of front windscreen, on handle | 0 | 100 | <0.01 |
| DH638501 | Ext, N elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH638502 | Decontamination unit, outside clean end, on handle | 0 | 100 | <0.01 |
| DH638499 | Ext, W elevation site boundary, adjacent to Newdegate St, on fencing | 0 | 100 | <0.01 |
| DH638498 | Ext, S elevation site boundary, adjacent to Headfort St, on fencing | 0 | 100 | <0.01 |
| FB | - | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with
ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 12/10/2023

**Date Analysed:** 12/10/2023

**Date Authorised** 12/10/2023

**Sampled by:** Laura Smith

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD

**Approved Counter:** Laura Smith **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DI466430 | Excavator cab, right hand side of front windscreen, on handle | 1 | 100 | <0.01 |
| DH635285 | Mini digger, left hand side of drivers seat, on hook | 0 | 100 | <0.01 |
| DH639041 | Int, south elevation, lunch room, on switch box | 0 | 100 | <0.01 |
| DH635307 | Ext, SW elevation, adjacent to corner of Newdegate St and Headfort St, on bollard | 0 | 100 | <0.01 |
| DH635324 | Ext, W elevation, adjacent to Newdegate Street, on fencing | 0 | 100 | <0.01 |
| DH639067 | Ext, E elevation, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH639046 | Ext, S elevation, outside supervisors office, on bollard | 0 | 100 | <0.01 |
| DH639036 | Field Blank | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 13/09/2023

**Date Analysed:** 13/09/2023

**Date Authorised** 13/09/2023

**Sampled by:** Patricy Cortes

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Patricy Cortes **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH638494 | Ext, E elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH638493 | Excavator cab, top left hand side of front windscreen, on handle | 1.5 | 100 | <0.01 |
| DH638496 | Ext, W elevation site boundary, adjacent to Newdegate St, on fencing | 2 | 100 | <0.01 |
| DH638495 | Ext, S elevation site boundary, adjacent to Headfort St, on fencing | 0 | 100 | <0.01 |
| DH638500 | Decontamination unit, outside clean end, on handle | 1 | 100 | <0.01 |
| DH638489 | Ext, N elevation site boundary, adjacent to neighbouring properties, on fencing | 3 | 100 | <0.01 |
| DH638449 | Int, North west corner of site, lunch room, on switch box | 2 | 100 | <0.01 |
| FB | - | 0 | 100 | - |

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# Analytical Report

Accredited for compliance with
ISO/IEC 17025 – Testing
Accreditation No:2220

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 13/10/2023

**Date Analysed:** 13/10/2023

**Date Authorised** 13/10/2023

**Sampled by:** Patricy Cortes

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Laboratory
Level 20, Tower B, Citadel Towers 799 Pacific Highway
Chatswood NSW 2067

**Approved Counter:** Patricy Cortes **Approved Signatory:** Caitlin McKinnon

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DI466609 | Int, south elevation, lunch room, on switch box | 0 | 100 | <0.01 |
| DI463765 | Excavator cab, right hand side of front windscreen, on handle | 0 | 100 | <0.01 |
| DI463799 | Ext, E elevation, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DI463780 | Ext, SW elevation, adjacent to corner of Newdegate St and Headfort St, on bollard | 0 | 100 | <0.01 |
| DI466592 | Ext, S elevation, outside supervisors office, on bollard | 0 | 100 | <0.01 |
| DI466441 | Ext, W elevation, adjacent to Newdegate Street, on fencing | 0 | 100 | <0.01 |
| FB | - | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:**

Accredited for compliance with
ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 13/12/2023

**Date Analysed:** 13/12/2023

**Date Authorised** 13/12/2023

**Sampled by:** Patricy Cortes

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Laboratory
Level 20, Tower B, Citadel Towers 799 Pacific Highway
Chatswood NSW 2067

**Approved Counter:** Patricy Cortes **Approved Signatory:** Matthew Tang

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| A1 | SW of work area, adjacent site shed, on door | 0 | 100 | <0.01 |
| A2 | E of work area, on fencing | 0 | 100 | <0.01 |
| A3 | NE of work area, on fencing | 2 | 100 | <0.01 |
| A4 | W of work area, on fencing | 0 | 100 | <0.01 |
| A5 | NW of work area, on fencing | 0 | 100 | <0.01 |
| FB | - | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 14/09/2023

**Date Analysed:** 14/09/2023

**Date Authorised** 14/09/2023

**Sampled by:** Patricy Cortes

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Patricy Cortes **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH638464 | Int, North west corner of site, lunch room, on switch box | 0 | 100 | <0.01 |
| DH638450 | Decontamination unit, outside clean end, on handle | 0 | 100 | <0.01 |
| DH638459 | Ext, E elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH638461 | Ext, W elevation site boundary, adjacent to Newdegate St, on fencing | 0.5 | 100 | <0.01 |
| DH638460 | Ext, S elevation site boundary, adjacent to Headfort St, on fencing | 1 | 100 | <0.01 |
| DH638477 | Ext, N elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH636157 | Excavator cab, top left hand side of front windscreen, on handle | 1 | 100 | <0.01 |
| FB | - | 0 | 100 | - |

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# Analytical Report

Accredited for compliance with
ISO/IEC 17025 – Testing
Accreditation No:2220

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:**

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 14/12/2023

**Date Analysed:** 14/12/2023

**Date Authorised** 14/12/2023

**Sampled by:** Patricy Cortes

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Laboratory
Level 20, Tower B, Citadel Towers 799 Pacific Highway
Chatswood NSW 2067

**Approved Counter:** Patricy Cortes **Approved Signatory:** Matthew Tang

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| A5 | SW of work area, adjacent site shed, on door | 0 | 100 | <0.01 |
| A3 | E of work area, on fencing | 0 | 100 | <0.01 |
| A4 | NE of work area, on fencing | 0 | 100 | <0.01 |
| A1 | W of work area, on fencing | 0 | 100 | <0.01 |
| A2 | NW of work area, on fencing | 0 | 100 | <0.01 |
| FB | - | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 15/09/2023

**Date Analysed:** 15/09/2023

**Date Authorised** 15/09/2023

**Sampled by:** Patricy Cortes

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Patricy Cortes **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH639096 | Int, North west corner of site, lunch room, on switch box | 0 | 100 | <0.01 |
| DH639075 | Ext, N elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH639082 | Decontamination unit, outside clean end, on handle | 0 | 100 | <0.01 |
| DH639071 | Ext, W elevation site boundary, adjacent to Newdegate St, on fencing | 0.5 | 100 | <0.01 |
| DH639089 | Ext, S elevation site boundary, adjacent to Headfort St, on fencing | 0 | 100 | <0.01 |
| DH639080 | Excavator cab, top left hand side of front windscreen, on handle | 2 | 100 | <0.01 |
| DH639084 | Ext, E elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH639095 | Mini digger, top left hand side of front windscreen | 1 | 100 | <0.01 |
| FB | - | 0 | 100 | - |

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# Analytical Report

Accredited for compliance with
ISO/IEC 17025 – Testing
Accreditation No:2220

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 16/10/2023

**Date Analysed:** 16/10/2023

**Date Authorised** 16/10/2023

**Sampled by:** Patricy Cortes

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Laboratory
Level 20, Tower B, Citadel Towers 799 Pacific Highway
Chatswood NSW 2067

**Approved Counter:** Patricy Cortes **Approved Signatory:** Richard Wilkinson

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DI466607 | Ext, E elevation, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DI467165 | Ext, W elevation, adjacent to Newdegate Street, on fencing | 0 | 100 | <0.01 |
| DI466614 | Ext, S elevation, outside supervisors office, on bollard | 0 | 100 | <0.01 |
| DI466588 | Int, south elevation, lunch room, on switch box | 0 | 100 | <0.01 |
| DI467084 | Ext, SW elevation, adjacent to corner of Newdegate St and Headfort St, on bollard | 0 | 100 | <0.01 |
| DI466599 | Excavator cab, right hand side of front windscreen, on handle | 0 | 100 | <0.01 |
| FB | - | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with
ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 17/10/2023

**Date Analysed:** 17/10/2023

**Date Authorised** 17/10/2023

**Sampled by:** Patricy Cortes

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Laboratory
Level 20, Tower B, Citadel Towers 799 Pacific Highway
Chatswood NSW 2067

**Approved Counter:** Patricy Cortes **Approved Signatory:** Richard Wilkinson

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DI466449 | Excavator cab, right hand side of front windscreen, on handle | 0 | 100 | <0.01 |
| DH635223 | Ext, E elevation, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH635228 | Ext, W elevation, adjacent to Newdegate Street, on fencing | 0 | 100 | <0.01 |
| DH639045 | Ext, SW elevation, adjacent to corner of Newdegate St and Headfort St, on bollard | 0 | 100 | <0.01 |
| DH635226 | Ext, S elevation, outside supervisors office, on bollard | 0 | 100 | <0.01 |
| DH635282 | Int, south elevation, lunch room, on switch box | 0 | 100 | <0.01 |
| FB | - | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 18/09/2023

**Date Analysed:** 18/09/2023

**Date Authorised** 18/09/2023

**Sampled by:** Patricy Cortes

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Patricy Cortes **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH638467 | Int, North west corner of site, lunch room, on switch box | 0 | 100 | <0.01 |
| DH638491 | Ext, N elevation site boundary, adjacent to neighbouring properties, on fencing | 2 | 100 | <0.01 |
| DH638465 | Excavator cab, top left hand side of front windscreen, on handle | 1 | 100 | <0.01 |
| DH638455 | Mini digger, top left hand side of front windscreen | 1 | 100 | <0.01 |
| DH638462 | Ext, E elevation site boundary, adjacent to neighbouring properties, on fencing | 1.5 | 100 | <0.01 |
| DH638451 | Decontamination unit, outside clean end, on handle | 0 | 100 | <0.01 |
| DH638478 | Ext, W elevation site boundary, adjacent to Newdegate St, on fencing | 0 | 100 | <0.01 |
| DH638457 | Ext, S elevation site boundary, adjacent to Headfort St, on fencing | 0.5 | 100 | <0.01 |
| FB | - | 0 | 100 | - |

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# Analytical Report

Accredited for compliance with
ISO/IEC 17025 – Testing
Accreditation No:2220

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 18/10/2023

**Date Analysed:** 18/10/2023

**Date Authorised** 18/10/2023

**Sampled by:** Patricy Cortes

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Laboratory
Level 20, Tower B, Citadel Towers 799 Pacific Highway
Chatswood NSW 2067

**Approved Counter:** Patricy Cortes **Approved Signatory:** Richard Wilkinson

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DI466590 | Int, south elevation, lunch room, on switch box | 0 | 100 | <0.01 |
| DH635227 | Excavator cab, right hand side of front windscreen, on handle | 0 | 100 | <0.01 |
| DH635238 | Ext, S elevation, outside supervisors office, on bollard | 0 | 100 | <0.01 |
| DH635231 | Ext, SW elevation, adjacent to corner of Newdegate St and Headfort St, on bollard | 0 | 100 | <0.01 |
| DH639116 | Ext, W elevation, adjacent to Newdegate Street, on fencing | 1 | 100 | <0.01 |
| DI466600 | Ext, E elevation, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| FB | - | 0 | 100 | - |

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*T (+61) (2) 9406 1000 F (+61) (2) 9406 1004 coffey.com*

# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 19/09/2023

**Date Analysed:** 19/09/2023

**Date Authorised** 19/09/2023

**Sampled by:** Patricy Cortes

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Patricy Cortes **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH638453 | Excavator cab, top left hand side of front windscreen, on handle | 2 | 100 | <0.01 |
| DH638492 | Mini digger, top left hand side of front windscreen | 0 | 100 | <0.01 |
| DH638466 | Int, North west corner of site, lunch room, on switch box | 0 | 100 | <0.01 |
| DH638474 | Ext, N elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH638476 | Ext, W elevation site boundary, adjacent to Newdegate St, on fencing | 0 | 100 | <0.01 |
| DH638472 | Ext, E elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH638454 | Ext, S elevation site boundary, adjacent to Headfort St, on fencing | 0 | 100 | <0.01 |
| FB | - | 0 | 100 | - |

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*Level 19, Tower B, Citadel Towers, 799 Pacific Hwy, Chatswood, NSW 2067 Australia*
*T (+61) (2) 9406 1000 F (+61) (2) 9406 1004 coffey.com*

# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 20/09/2023

**Date Analysed:** 20/09/2023

**Date Authorised** 20/09/2023

**Sampled by:** Patricy Cortes

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Patricy Cortes **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH638468 | Int, North west corner of site, lunch room, on switch box | 1 | 100 | <0.01 |
| DH638488 | Ext, N elevation site boundary, adjacent to neighbouring properties, on fencing | 1 | 100 | <0.01 |
| DH638463 | Mini digger, top left hand side of front windscreen | 0 | 100 | <0.01 |
| DH635502 | Excavator cab, top left hand side of front windscreen, on handle | 0 | 100 | <0.01 |
| DH638482 | Ext, E elevation site boundary, adjacent to neighbouring properties, on fencing | 2 | 100 | <0.01 |
| DH638480 | Ext, W elevation site boundary, adjacent to Newdegate St, on fencing | 0 | 100 | <0.01 |
| DH638490 | Ext, S elevation site boundary, adjacent to Headfort St, on fencing | 0 | 100 | <0.01 |
| FB | - | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 21/09/2023

**Date Analysed:** 21/09/2023

**Date Authorised** 21/09/2023

**Sampled by:** Patricy Cortes

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Patricy Cortes **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH638485 | Int, North west corner of site, lunch room, on switch box | 0 | 100 | <0.01 |
| DH638486 | Ext, N elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH638479 | Ext, W elevation site boundary, adjacent to Newdegate St, on fencing | 0 | 100 | <0.01 |
| DH638481 | Ext, S elevation site boundary, adjacent to Headfort St, on fencing | 0 | 100 | <0.01 |
| DH636054 | Mini digger, top left hand side of front windscreen | 0 | 100 | <0.01 |
| DH638475 | Excavator cab, top left hand side of front windscreen, on handle | 1 | 100 | <0.01 |
| DH636857 | Ext, E elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| FB | - | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 22/09/2023

**Date Analysed:** 22/09/2023

**Date Authorised** 23/09/2023

**Sampled by:** Patricy Cortes

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Patricy Cortes **Approved Signatory:** Richard Wilkinson

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH638487 | Int, North west corner of site, lunch room, on switch box | 0 | 100 | <0.01 |
| DH638484 | Ext, N elevation site boundary, adjacent to neighbouring properties, on fencing | 1 | 100 | <0.01 |
| DH639069 | Ext, W elevation site boundary, adjacent to Newdegate St, on fencing | 0 | 100 | <0.01 |
| DH639043 | Ext, S elevation site boundary, adjacent to Headfort St, on fencing | 0 | 100 | <0.01 |
| DH639051 | Ext, E elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH635209 | Mini digger, top left hand side of front windscreen | 2 | 100 | <0.01 |
| DH639038 | Excavator cab, top left hand side of front windscreen, on handle | 1.5 | 100 | <0.01 |
| FB | - | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 23/08/2023

**Date Analysed:** 23/08/2023

**Date Authorised** 23/08/2023

**Sampled by:** Laura Smith

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Laura Smith **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH638575 | Ext, N elevation of work area, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH638577 | Ext, E elevation of work area, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH638571 | Ext, S elevation of work area, adjacent to Headfort St, on fencing | 0 | 100 | <0.01 |
| DH638574 | Ext, W elevation of work area, adjacent to Newdegate St, on fencing | 0 | 100 | <0.01 |
| DH638631 | Int, North west corner of work area, lunch room, on switch box | 1 | 100 | <0.01 |
| DH636864 | Field Blank | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with
ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 23/10/2023

**Date Analysed:** 23/10/2023

**Date Authorised** 23/10/2023

**Sampled by:** Patricy Cortes

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Laboratory
Level 20, Tower B, Citadel Towers 799 Pacific Highway
Chatswood NSW 2067

**Approved Counter:** Patricy Cortes **Approved Signatory:** Richard Wilkinson

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH635235 | Ext, S elevation, outside supervisors office, on bollard | 0 | 100 | <0.01 |
| DH635248 | Int, south elevation, lunch room, on switch box | 0 | 100 | <0.01 |
| DH635246 | Ext, E elevation, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH635240 | Ext, W elevation, adjacent to Newdegate Street, on fencing | 0 | 100 | <0.01 |
| DH635247 | Ext, N elevation, adjacent to neighbouring properties, on fencing | 1 | 100 | <0.01 |
| DH635253 | Excavator cab, right hand side of front windscreen, on handle | 0 | 100 | <0.01 |
| FB | - | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 24/08/2023

**Date Analysed:** 24/08/2023

**Date Authorised** 24/08/2023

**Sampled by:** Laura Smith

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

*As per The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2; sample DH638585 was void due to flow rate exceeding +/-10% variation.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Laura Smith **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH638635 | Ext, N elevation of work area, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH636852 | Ext, E elevation of work area, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH638585 | Ext, S elevation of work area, adjacent to Headfort St, on fencing | *VOID | *VOID | *VOID |
| DH635893 | Ext, W elevation of work area, adjacent to Newdegate St, on fencing | 0 | 100 | <0.01 |
| DH638614 | Int, North west corner of work area, lunch room, on switch box | 0 | 100 | <0.01 |
| DH638624 | Field Blank | 0 | 100 | - |

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# Analytical Report

Accredited for compliance with
ISO/IEC 17025 – Testing
Accreditation No:2220

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 24/10/2023

**Date Analysed:** 24/10/2023

**Date Authorised** 24/10/2023

**Sampled by:** Patricy Cortes

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Laboratory
Level 20, Tower B, Citadel Towers 799 Pacific Highway
Chatswood NSW 2067

**Approved Counter:** Patricy Cortes **Approved Signatory:** Matthew Tang

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH635283 | Ext, S elevation, adjacent Headfort st, on bollard | 0 | 100 | <0.01 |
| DH635237 | Excavator cab, right hand side of front windscreen, on handle | - | - | Rejected |
| DH635279 | Ext, E elevation, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH635244 | Ext, N elevation, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH635242 | Ext, W elevation, adjacent to Newdegate Street, on fencing | 0 | 100 | <0.01 |
| FB | - | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 25/08/2023

**Date Analysed:** 25/08/2023

**Date Authorised** 25/08/2023

**Sampled by:** Laura Smith

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Laura Smith **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH635510 | Ext, N elevation of work area, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH635514 | Ext, E elevation of work area, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH635478 | Ext, S elevation of work area, adjacent to Headfort St, on fencing | 0 | 100 | <0.01 |
| DH635476 | Ext, W elevation of work area, adjacent to Newdegate St, on fencing | 0 | 100 | <0.01 |
| DH635483 | Int, North west corner of work area, lunch room, on switch box | 0 | 100 | <0.01 |
| DH638570 | Field Blank | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 25/09/2023

**Date Analysed:** 25/09/2023

**Date Authorised** 25/09/2023

**Sampled by:** Laura Smith

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Laura Smith **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH639037 | Excavator cab, top right hand side of front windscreen, on handle | 0 | 100 | <0.01 |
| DH639044 | Mini digger, top left hand side of front windscreen | 0 | 100 | <0.01 |
| DH639070 | Int, North west corner of site, lunch room, on switch box | 0 | 100 | <0.01 |
| DH639048 | Ext, N elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH639039 | Ext, E elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH639059 | Ext, W elevation site boundary, adjacent to Newdegate St, on fencing | 0 | 100 | <0.01 |
| DH639050 | Ext, SW corner site boundary, adjacent to Headfort St, on fencing | 0 | 100 | <0.01 |
| DH639085 | Field Blank | 0 | 100 | - |

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# Analytical Report

Accredited for compliance with
ISO/IEC 17025 – Testing
Accreditation No:2220

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 25/10/2023

**Date Analysed:** 25/10/2023

**Date Authorised** 25/10/2023

**Sampled by:** Patricy Cortes

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Laboratory
Level 20, Tower B, Citadel Towers 799 Pacific Highway
Chatswood NSW 2067

**Approved Counter:** Patricy Cortes **Approved Signatory:** Richard Wilkinson

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH635254 | Ext, S elevation, adjacent Headfort st, on bollard | 0 | 100 | <0.01 |
| DH635245 | Excavator cab, right hand side of front windscreen, on handle | 0 | 100 | <0.01 |
| DI467172 | Ext, N elevation, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH635225 | Ext, E elevation, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DI466617 | Ext, W elevation, adjacent to Newdegate Street, on fencing | 0 | 100 | <0.01 |
| FB | - | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 26/09/2023

**Date Analysed:** 26/09/2023

**Date Authorised** 26/09/2023

**Sampled by:** Laura Smith

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Laura Smith **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH639052 | Excavator cab, top right hand side of front windscreen, on handle | 0 | 100 | <0.01 |
| DH639097 | Mini digger, top left hand side of rear windscreen, on hook | 1 | 100 | <0.01 |
| DH639056 | Int, North west corner of site, lunch room, on switch box | 0 | 100 | <0.01 |
| DH639083 | Ext, S elevation site boundary, adjacent to Headfort St, on bollard | 0 | 100 | <0.01 |
| DH639066 | Ext, E elevation site boundary, adjacent to neighbouring properties, on bollard | 0.5 | 100 | <0.01 |
| DH639054 | Ext, W elevation site boundary, adjacent to Newdegate St, on fencing | 0 | 100 | <0.01 |
| DH639065 | Ext, N elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH639062 | Field Blank | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 27/09/2023

**Date Analysed:** 27/09/2023

**Date Authorised** 27/09/2023

**Sampled by:** Laura Smith

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Laura Smith **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH635321 | Excavator cab, top right hand side of front windscreen, on handle | 0 | 100 | <0.01 |
| DH635325 | Mini digger, top left hand side of rear windscreen, on hook | 0 | 100 | <0.01 |
| DH635316 | Int, North west corner of site, lunch room, on switch box | 0 | 100 | <0.01 |
| DH639057 | Ext, N elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH639092 | Ext, E elevation site boundary, adjacent to neighbouring properties, on bollard | 0 | 100 | <0.01 |
| DH635314 | Ext, S elevation site boundary, adjacent to Headfort St, on bollard | 0 | 100 | <0.01 |
| DH635304 | Ext, W elevation site boundary, adjacent to Newdegate St, on fencing | 0 | 100 | <0.01 |
| DH635306 | Field Blank | 0 | 100 | - |

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# Analytical Report

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 28/08/2023

**Date Analysed:** 28/08/2023

**Date Authorised** 28/08/2023

**Sampled by:** Laura Smith

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Laura Smith

**Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH635205 | Ext, N elevation of work area, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH639021 | Ext, E elevation of work area, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH635204 | Ext, S elevation of work area, adjacent to Headfort St, on fencing | 0 | 100 | <0.01 |
| DH638989 | Ext, W elevation of work area, adjacent to Newdegate St, on fencing | 0 | 100 | <0.01 |
| DH639014 | Int, North west corner of work area, lunch room, on switch box | 0 | 100 | <0.01 |
| DH638982 | Field Blank | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 28/09/2023

**Date Analysed:** 28/09/2023

**Date Authorised** 28/09/2023

**Sampled by:** Laura Smith

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Laura Smith **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH635298 | Excavator cab, top right hand side of front windscreen, on handle | 0 | 100 | <0.01 |
| DH635313 | Mini digger, top left hand side of rear windscreen, on hook | 1.5 | 100 | <0.01 |
| DH635318 | Int, North west corner of site, lunch room, on switch box | 0 | 100 | <0.01 |
| DH635308 | Ext, N elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH635317 | Ext, W elevation site boundary, adjacent to Newdegate St, on fencing | 0 | 100 | <0.01 |
| DH635312 | Ext, E elevation site boundary, adjacent to neighbouring properties, on bollard | 1 | 100 | <0.01 |
| DH635319 | Ext, S elevation site boundary, adjacent to Headfort St, on bollard | 0 | 100 | <0.01 |
| DH639040 | Field Blank | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 29/08/2023

**Date Analysed:** 29/08/2023

**Date Authorised** 29/08/2023

**Sampled by:** Laura Smith

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Laura Smith **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH639002 | Excavator cab, on handle | 0 | 100 | <0.01 |
| DH638984 | Int, North west corner of site, lunch room, on switch box | 1.5 | 100 | <0.01 |
| DH639007 | Decontamination unit, outside clean end, on handle | 1 | 100 | <0.01 |
| DH639016 | Ext, NE elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH639019 | Ext, SE elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH638990 | Ext, SW elevation site boundary, adjacent to Headfort St, on fencing | 1 | 100 | <0.01 |
| DH638994 | Ext, NW elevation site boundary, adjacent to Newdegate St, on fencing | 2 | 100 | <0.01 |
| DH639018 | Field Blank | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 29/09/2023

**Date Analysed:** 29/09/2023

**Date Authorised** 29/09/2023

**Sampled by:** Laura Smith

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Patricy Cortes **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH639053 | Excavator cab, top right hand side of front windscreen, on handle | 1 | 100 | <0.01 |
| DH635261 | Mini digger, top left hand side of rear windscreen, on hook | 1 | 100 | <0.01 |
| DH635276 | Int, North west corner of site, lunch room, on switch box | 0 | 100 | <0.01 |
| DH635272 | Ext, N elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH635268 | Ext, W elevation site boundary, adjacent to Newdegate St, on fencing | 0 | 100 | <0.01 |
| DH635280 | Ext, SE elevation, adjacent work area, next to decon unit, on bollard | 0 | 100 | <0.01 |
| DH635266 | Ext, SW elevation site boundary, adjacent to Headfort St, on fence | 0 | 100 | <0.01 |
| DH635274 | Field Blank | 0 | 100 | - |

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# Analytical Report

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 30/08/2023

**Date Analysed:** 30/08/2023

**Date Authorised** 30/08/2023

**Sampled by:** Laura Smith

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Laura Smith **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH639005 | Excavator cab, top left hand side of front windscreen, on handle | 1 | 100 | <0.01 |
| DH638992 | Decontamination unit, outside clean end, on handle | 0 | 100 | <0.01 |
| DH638998 | Int, North west corner of site, lunch room, on switch box | 1 | 100 | <0.01 |
| DH638983 | Ext, W elevation site boundary, adjacent to Newdegate St, on fencing | 0 | 100 | <0.01 |
| DH639017 | Ext, N elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH638996 | Ext, E elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH639030 | Ext, S elevation site boundary, adjacent to Headfort St, on fencing | 0 | 100 | <0.01 |
| DH639012 | Field Blank | 0 | 100 | - |

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# Analytical Report

Accredited for compliance with ISO/IEC 17025 – Testing
Accreditation No:2220

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 31/08/2023

**Date Analysed:** 31/08/2023

**Date Authorised** 31/08/2023

**Sampled by:** Laura Smith

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Site Laboratory at 114 Newdegate Street, Greenslopes QLD.

**Approved Counter:** Laura Smith **Approved Signatory:** Laura Smith

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH639029 | Excavator cab, top left hand side of front windscreen, on handle | 1.5 | 100 | <0.01 |
| DH639013 | Positrack cab, top centre of rear windscreen, on handle | 0 | 100 | <0.01 |
| DH635527 | Int, North west corner of site, lunch room, on switch box | 0 | 100 | <0.01 |
| DH639031 | Decontamination unit, outside clean end, on handle | 0 | 100 | <0.01 |
| DH639025 | Ext, W elevation site boundary, adjacent to Newdegate St, on fencing | 0 | 100 | <0.01 |
| DH639000 | Ext, N elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH639004 | Ext, E elevation site boundary, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH639008 | Ext, S elevation site boundary, adjacent to Headfort St, on fencing | 0 | 100 | <0.01 |
| DH639128 | Field Blank | 0 | 100 | - |

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HazSure Pty Ltd
P (07) 3191 4684
ABN 61 612 369 829
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10 Edmondstone Road, Bowen Hills QLD 4006

| | | | |
|---|---|---|---|
| **Client:** | Tetra Tech Coffey | **Date Sampled:** | 19 October 2023 |
| **Client Address:** | Level 19, Tower B, CitadelTowers, 799 Pacific Highway, Chatswood NSW | **Date Received:** | 19 October 2023 |
| **Client Contact:** | Richard Wilkinson (COH) | **Date Analysed/Reported:** | 19 October 2023 |
| **Phone No:** | 02 9406 1185 | **Order No:** | N/A |
| **Email:** | richard.wilkinson@tetratech.com | **Sampled By:** | Michael McKenzie |
| **Site/Location:** | 114 Newdegate Street, Greenslopes | **Certificate No:** | HC4360.A.1 |

# CERTIFICATE OF ANALYSIS
## Airborne Fibre Count

**Analysis Method:**

Air Monitoring filters were examined at the HazSure Consultants NATA Accredited facility (No 20060) in accordance with 2005 [NOHSC:3003: (2005)] Guidance Note on the Membrane Filter Method for the Estimation of Airborne Asbestos Fibres, 2nd Edition, and the in-house Laboratory Method MFM.

| Lab No. | Sample No. | Sample Location | Sample Type | Fibre Count (Fibres/Field) | Concentration (Fibres/mL) |
|---|---|---|---|---|---|
| 1 | 9622 | Ext, E elevation site boundary,adjacent to neighbouring properties, on fencing | WIP | 1 / 100 | <0.01 |
| 2 | 9644 | Ext, N elevation site boundary,adjacent to neighbouring properties, on fencing | WIP | 0 / 100 | <0.01 |
| 3 | 9645 | Ext, W elevation site boundary, adj Newdegate st, on fencing | WIP | 0 / 100 | <0.01 |
| 4 | 9658 | Ext, SW elevation site boundary,adjacent to adjacent to Newdegate st and Headfort st, on Fence | WIP | 0 / 100 | <0.01 |
| 5 | 9620 | Ext, S elevation, outside supervisors office, on fence | WIP | 2 / 100 | <0.01 |
| 6 | 9637 | Int, S elevation, lunch room, onswitchbox | WIP | 0 / 100 | <0.01 |

**Legend:**

- **WIP** Work in Progress
- **C** Clearance
- **R** Reassurance
- **P** Personal
- **B** Background

**Approved Counter:**

**Name:** Michael McKenzie

**Approved Signatory:**

**Name:** Adam Maurice

**Notes:**

If the fibre count is less than 10 fibres per 100 fields the count is not significantly above that of background (Guidance Note on the Membrane Filter Method for the Estimation of Airborne Asbestos Fibres, 2nd Edition, 2005 [NOHSC:3003: (2005)]).

The results contained within this report relate only to the sample(s) submitted for testing. HazSure Pty Ltd t/as HazSure Consultants accepts no responsibility for the initial collection, packaging or transportation of samples submitted by external persons. Samples identified 'As received' are reported on the assumption that the information provided is accurate and in accordance with the company/individual's procedures, HazSure Consultants are not responsible for information provided. This document may not be reproduced except in full.

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| | | | |
|---|---|---|---|
| **Client:** | Tetra Tech Coffey | **Date Sampled:** | 20 October 2023 |
| **Client Address:** | Level 19, Tower B, CitadelTowers, 799 Pacific Highway, Chatswood NSW | **Date Received:** | 20 October 2023 |
| **Client Contact:** | Richard Wilkinson (COH) | **Date Analysed/Reported:** | 20 October 2023 |
| **Phone No:** | 02 9406 1185 | **Order No:** | N/A |
| **Email:** | richard.wilkinson@tetratech.com | **Sampled By:** | Michael McKenzie |
| **Site/Location:** | 114 Newdegate Street, Greenslopes | **Certificate No:** | HC4360.A.2 |

# CERTIFICATE OF ANALYSIS
## Airborne Fibre Count

**Analysis Method:**

Air Monitoring filters were examined at the HazSure Consultants NATA Accredited facility (No 20060) in accordance with 2005 [NOHSC:3003: (2005)] Guidance Note on the Membrane Filter Method for the Estimation of Airborne Asbestos Fibres, 2nd Edition, and the in-house Laboratory Method MFM.

| Lab No. | Sample No. | Sample Location | Sample Type | Fibre Count (Fibres/Field) | Concentration (Fibres/mL) |
|---|---|---|---|---|---|
| 1 | 5243 | Ext, Eastern elevation site boundary,adjacent to neighbouring properties, on fencing | WIP | 0 / 100 | <0.01 |
| 2 | 5239 | Ext, Northern elevation site boundary,adjacent to neighbouring properties, on fencing | WIP | 0 / 100 | <0.01 |
| 3 | 5241 | Ext, Western elevation site boundary, adj Newdegate st, on fencing | WIP | 0 / 100 | <0.01 |
| 4 | 9663 | Ext, SW elevation site boundary,adjacent to adjacent to Newdegate st and Headfort st, on Fence | WIP | 0 / 100 | <0.01 |
| 5 | 9632 | Ext, Southern elevation, outside supervisors office, on fence | WIP | 0 / 100 | <0.01 |
| 6 | 9646 | Int, Southern elevation, lunch room, onswitchbox | WIP | 0 / 100 | <0.01 |
| 7 | 5251 | Inside excavator cabin (dust overload) | WIP | VOID | N/A |

**Legend:**

- **WIP** Work in Progress
- **C** Clearance
- **R** Reassurance
- **P** Personal
- **B** Background

**Approved Counter:**

**Name:** Michael McKenzie

**Approved Signatory:**

**Name:** Adam Maurice

**Notes:**

If the fibre count is less than 10 fibres per 100 fields the count is not significantly above that of background (Guidance Note on the Membrane Filter Method for the Estimation of Airborne Asbestos Fibres, 2nd Edition, 2005 [NOHSC:3003: (2005)]).

The results contained within this report relate only to the sample(s) submitted for testing. HazSure Pty Ltd t/as HazSure Consultants accepts no responsibility for the initial collection, packaging or transportation of samples submitted by external persons. Samples identified 'As received' are reported on the assumption that the information provided is accurate and in accordance with the company/individual's procedures, HazSure Consultants are not responsible for information provided. This document may not be reproduced except in full.

# APPENDIX J: SITE SPECIFIC RISK ASSESSMENTS

## J.1 ARSENIC ASSESSMENT

# MODIFIED HIL-A CRITERIA FOR ARSENIC

Validation sampling reported a maximum concentration of arsenic in samples HSA02_TS (350 mg/kg) and HSA03_TS (170 mg/kg) which exceeded the default (Tier 1) HIL-A criteria for arsenic in the NEPM (100 mg/kg).

The location of these validation samples is shown in Figure 8, Appendix A, and tabulated data provided in Appendix C. The samples were collected from materials directly beneath a copper chromium arsenic (CCA) treated timber fence located on the eastern boundary of the Site.

The default HIL-A criteria assumes an exposure frequency of 365 days per year, and the time spent outdoors is four hours per day. The default criteria for arsenic in the NEPM is driven by exposure pathways involving soil ingestion by young children (0-5 years old).

The default exposure frequency is considered to be conservative noting:

- it is highly unlikely that a receptor would play outside 365 days per year
- it is highly unlikely that a child receptor would exclusively play in the location where the maximum concentration of arsenic was reported which is beneath a boundary fence in a limited area. The nature of outdoor activity for a child typically results in play within a number of different areas.

Using the HILs spreadsheet provided in the NEPM Toolbox[1] a modified HIL-A criteria for arsenic was developed. The exposure frequency was changed from 365 days per year to 292 days per year on the basis that there are on average 76.4 days with rain ≥ 1 mm in Brisbane based on data from the Australian Bureau of Meteorology (BoM) (refer to Attachment A). This change represents and a reduction in the exposure frequency (days/per year) by 20% and is considered conservative noting other exposure parameters have not changed including:

- a child receptor from 0 to 5 years plays outdoors each day for four hours in the same location
- other factors which may also reduce exposure frequency such as illness and time away from the dwelling have not been accounted for.

Based on the change in exposure frequency to 292 days the modified HIL-A criteria for arsenic is 160 mg/kg.

A 95% upper confidence limit (UCL) and mean ± standard deviation for samples representative of conditions along the eastern boundary of the site was calculated using ProUCL. These samples were collected beneath and/or in close proximity to the CCA timber treated fence located along the length of the eastern property boundary. These samples are considered to be representative of materials located along this boundary.

The input data is provided in Attachment B. The ProUCL output data is provided in Attachment C, and is summarised in the table below.

| Statistical parameter | Arsenic value (mg/kg) |
|---|---|
| **UCL 95%** | 143.5 |
| **Mean ± standard deviation** | 51 ± 88 |

In summary the following is noted:

- the maximum value reported is 175% of the modified criteria and is therefore less than 250% of the criteria as required in Schedule B1 of the NEPM.

[1] https://www.nepc.gov.au/nepms/assessment-site-contamination/toolbox

- the standard deviation (88 mg/kg) is less than 50% of the modified criteria as required in Schedule B1 of the NEPM.
- the mean and UCL 95% are below the modified criteria for arsenic.

## ATTACHMENT A – BOM DATA

Australian Government
Bureau of Meteorology

# Climate statistics for Australian locations

## Monthly climate statistics

### All years of record

#### Site information

**Site name:** BRISBANE REGIONAL OFFICE
**Site number:** 040214
**Latitude:** 27.47 °S **Longitude:** 153.03 °E
**Elevation:** 38 m
**Commenced:** 1840 **Status:** Closed 01 Jul 1994
**Latest available data:** 30 Jun 1994

#### Additional information

Additional site information

#### Nearest alternative sites

1. 040913 BRISBANE (2.0km)
2. 040236 NUDGEE (6.7km)
3. 040223 BRISBANE AERO (10.1km)

View: Main statistics All available | Period: Use all years of data | Text size: Normal Large

| Statistics | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Annual | Years | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Temperature | | | | | | | | | | | | | | | |
| Mean maximum temperature (°C) | 29.4 | 29.0 | 28.0 | 26.1 | 23.2 | 20.9 | 20.4 | 21.8 | 24.1 | 26.1 | 27.8 | 29.1 | 25.5 | 99 | 1887 1986 |
| Mean minimum temperature (°C) | 20.7 | 20.6 | 19.4 | 16.6 | 13.3 | 10.9 | 9.5 | 10.3 | 12.9 | 15.8 | 18.1 | 19.8 | 15.7 | 99 | 1887 1986 |
| Rainfall | | | | | | | | | | | | | | | |
| Mean rainfall (mm) | 159.6 | 158.3 | 140.7 | 92.5 | 73.7 | 67.8 | 56.5 | 45.9 | 45.7 | 75.4 | 97.0 | 133.3 | 1149.1 | 145 | 1840 1994 |
| Decile 5 (median) rainfall (mm) | 126.0 | 115.8 | 110.1 | 60.6 | 51.8 | 43.5 | 37.9 | 29.4 | 39.5 | 61.2 | 83.3 | 116.0 | 1106.7 | 138 | 1840 1994 |
| Mean number of days of rain ≥ 1 mm | 8.4 | 8.8 | 9.4 | 6.8 | 5.8 | 4.5 | 4.2 | 4.0 | 4.4 | 5.9 | 6.5 | 7.7 | 76.4 | 132 | 1841 1994 |
| Other daily elements | | | | | | | | | | | | | | | |
| Mean daily sunshine (hours) | 7.4 | 6.6 | 6.5 | 7.2 | 6.9 | 6.8 | 7.4 | 7.9 | 8.2 | 8.0 | 8.4 | 8.1 | 7.4 | 26 | 1951 1983 |
| Mean number of clear days | 4.0 | 3.5 | 6.7 | 8.7 | 10.7 | 12.1 | 15.2 | 15.4 | 14.1 | 9.2 | 7.4 | 6.1 | 113.1 | 35 | 1951 1986 |
| Mean number of cloudy days | 14.3 | 13.4 | 12.8 | 8.7 | 10.0 | 8.1 | 7.4 | 5.9 | 5.9 | 9.9 | 10.7 | 12.1 | 119.2 | 35 | 1951 1986 |
| 9 am conditions | | | | | | | | | | | | | | | |
| Mean 9am temperature (°C) | 25.6 | 25.3 | 24.1 | 21.5 | 17.7 | 14.7 | 13.7 | 15.4 | 18.8 | 21.7 | 24.1 | 25.5 | 20.7 | 35 | 1951 1986 |
| Mean 9am relative humidity (%) | 66 | 69 | 71 | 70 | 70 | 70 | 67 | 63 | 61 | 60 | 60 | 62 | 66 | 35 | 1951 1986 |
| Mean 9am wind speed (km/h) | 7.8 | 7.5 | 7.3 | 6.8 | 7.3 | 8.4 | 8.1 | 7.6 | 7.0 | 7.1 | 7.1 | 7.1 | 7.4 | 35 | 1951 1986 |
| 3 pm conditions | | | | | | | | | | | | | | | |
| Mean 3pm temperature (°C) | 27.4 | 27.4 | 26.7 | 25.1 | 22.2 | 20.1 | 19.5 | 20.7 | 22.5 | 24.0 | 25.8 | 27.1 | 24.0 | 35 | 1951 1986 |
| Mean 3pm relative humidity (%) | 59 | 60 | 59 | 55 | 52 | 51 | 46 | 44 | 46 | 52 | 55 | 57 | 53 | 35 | 1951 1986 |
| Mean 3pm wind speed (km/h) | 14.4 | 13.6 | 13.1 | 11.0 | 9.5 | 9.9 | 10.5 | 11.7 | 13.3 | 14.3 | 14.5 | 14.9 | 12.6 | 35 | 1951 1986 |

red = highest value blue = lowest value

Product IDCJCM0027 Prepared at Thu 15 Feb 2024 04:16:00 AM AEDT

Monthly statistics are only included if there are more than 10 years of data. The number of years (provided in the 2nd last column of the table) may differ between elements if the observing program at the site changed. More detailed data for individual sites can be obtained by contacting the Bureau.

## Related Links

- This page URL: http://www.bom.gov.au/climate/averages/tables/cw_040214.shtml
- About climate averages: http://www.bom.gov.au/climate/cdo/about/about-stats.shtml
- Bureau of Meteorology website: http://www.bom.gov.au

Page created: Thu 15 Feb 2024 04:16:00 AM AEDT

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## ATTACHMENT B – PRO UCL INPUT DATA FOR EASTERN SITE BOUNDARY

| Sample ID | Arsenic (mg/kg) |
|---|---|
| **HS12_ASH_230918** | 19 |
| HSA01_FILL_230920 | 10 |
| HSA01_TS_230920 | 74 |
| HSA02_FILL_230920 | 18 |
| HSA02_TS_230920 | 350 |
| HSA03_FILL_230920 | 43 |
| HSA03_TS_230920 (Rebatch As) | 170 |
| HSA04_FILL_230920 | 31 |
| HSA04_TS_230920 | 78 |
| A10 | 11 |
| B10 | 3.5 |
| C10 | 6.8 |
| D10 | 6.1 |
| E10 | 8.9 |
| F10 | 8.3 |
| G10 | 7.4 |
| H10 | 13 |

## ATTACHMENT C – PRO UCL OUTPUT

## UCL Statistics for Uncensored Full Data Sets

| | |
|---|---|
| User Selected Options | |
| Date/Time of Computation | ProUCL 5.116/02/2024 3:56:32 PM |
| From File | Arsenic Input.xls |
| Full Precision | OFF |
| Confidence Coefficient | 95% |
| Number of Bootstrap Operations | 2000 |

**Arsenic**

**General Statistics**

| | | | |
|---|---|---|---|
| Total Number of Observations | 17 | Number of Distinct Observations | 17 |
| | | Number of Missing Observations | 0 |
| Minimum | 3.5 | Mean | 50.47 |
| Maximum | 350 | Median | 13 |
| SD | 87.98 | Std. Error of Mean | 21.34 |
| Coefficient of Variation | 1.743 | Skewness | 2.898 |

**Normal GOF Test**

| | | |
|---|---|---|
| Shapiro Wilk Test Statistic | 0.57 | **Shapiro Wilk GOF Test** |
| 5% Shapiro Wilk Critical Value | 0.892 | Data Not Normal at 5% Significance Level |
| Lilliefors Test Statistic | 0.299 | **Lilliefors GOF Test** |
| 5% Lilliefors Critical Value | 0.207 | Data Not Normal at 5% Significance Level |

**Data Not Normal at 5% Significance Level**

**Assuming Normal Distribution**

| **95% Normal UCL** | | **95% UCLs (Adjusted for Skewness)** | |
|---|---|---|---|
| 95% Student's-t UCL | 87.72 | 95% Adjusted-CLT UCL (Chen-1995) | 101.6 |
| | | 95% Modified-t UCL (Johnson-1978) | 90.22 |

**Gamma GOF Test**

| | | |
|---|---|---|
| A-D Test Statistic | 1.249 | **Anderson-Darling Gamma GOF Test** |
| 5% A-D Critical Value | 0.783 | Data Not Gamma Distributed at 5% Significance Level |
| K-S Test Statistic | 0.248 | **Kolmogorov-Smirnov Gamma GOF Test** |
| 5% K-S Critical Value | 0.218 | Data Not Gamma Distributed at 5% Significance Level |

**Data Not Gamma Distributed at 5% Significance Level**

**Gamma Statistics**

| | | | |
|---|---|---|---|
| k hat (MLE) | 0.67 | k star (bias corrected MLE) | 0.591 |
| Theta hat (MLE) | 75.34 | Theta star (bias corrected MLE) | 85.42 |
| nu hat (MLE) | 22.78 | nu star (bias corrected) | 20.09 |
| MLE Mean (bias corrected) | 50.47 | MLE Sd (bias corrected) | 65.66 |
| | | Approximate Chi Square Value (0.05) | 10.92 |
| Adjusted Level of Significance | 0.0346 | Adjusted Chi Square Value | 10.21 |

**Assuming Gamma Distribution**

| | | | |
|---|---|---|---|
| 95% Approximate Gamma UCL (use when n>=50)) | 92.87 | 95% Adjusted Gamma UCL (use when n<50) | 99.28 |

**Lognormal GOF Test**

| | | | |
|---|---|---|---|
| Shapiro Wilk Test Statistic | 0.92 | **Shapiro Wilk Lognormal GOF Test** | |
| 5% Shapiro Wilk Critical Value | 0.892 | Data appear Lognormal at 5% Significance Level | |
| Lilliefors Test Statistic | 0.169 | **Lilliefors Lognormal GOF Test** | |
| 5% Lilliefors Critical Value | 0.207 | Data appear Lognormal at 5% Significance Level | |
| **Data appear Lognormal at 5% Significance Level** | | | |
| | | | |
| **Lognormal Statistics** | | | |
| Minimum of Logged Data | 1.253 | Mean of logged Data | 3.014 |
| Maximum of Logged Data | 5.858 | SD of logged Data | 1.279 |
| | | | |
| **Assuming Lognormal Distribution** | | | |
| 95% H-UCL | 124.7 | 90% Chebyshev (MVUE) UCL | 88.04 |
| 95% Chebyshev (MVUE) UCL | 108.6 | 97.5% Chebyshev (MVUE) UCL | 137.1 |
| 99% Chebyshev (MVUE) UCL | 193.1 | | |
| | | | |
| **Nonparametric Distribution Free UCL Statistics** | | | |
| **Data appear to follow a Discernible Distribution at 5% Significance Level** | | | |
| | | | |
| **Nonparametric Distribution Free UCLs** | | | |
| 95% CLT UCL | 85.57 | 95% Jackknife UCL | 87.72 |
| 95% Standard Bootstrap UCL | 84.59 | 95% Bootstrap-t UCL | 168.1 |
| 95% Hall's Bootstrap UCL | 224.4 | 95% Percentile Bootstrap UCL | 88.39 |
| 95% BCA Bootstrap UCL | 106.1 | | |
| 90% Chebyshev(Mean, Sd) UCL | 114.5 | 95% Chebyshev(Mean, Sd) UCL | 143.5 |
| 97.5% Chebyshev(Mean, Sd) UCL | 183.7 | 99% Chebyshev(Mean, Sd) UCL | 262.8 |
| | | | |
| **Suggested UCL to Use** | | | |
| 95% Chebyshev (Mean, Sd) UCL | 143.5 | | |
| | | | |
| Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. | | | |
| Recommendations are based upon data size, data distribution, and skewness. | | | |
| These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006). | | | |
| However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician. | | | |

## J.2 ASBESTOS ASSESSMENT

# REMOVAL OF FILL MATERIALS FROM THE SITE AND MODIFIED HSL-A FOR ASBESTOS

## Introduction

Bonded asbestos containing materials (ACM) in the form of broken fragments of asbestos cement sheet debris was observed in fill soils at the Site during remediation. During remediation a decision was made to excavate and remove all fill materials from the Site. Examples of ACM fragments found in ash fill materials during remediation are provided in the photographs below.

Examples of ACM in fill material

The potential for generation of asbestos fines (AF) from the large (>7mm) fragments of bonded ACM observed was generally considered to be low without substantial physical damage (i.e. could not be broken or crumbled with hand pressure). Notwithstanding the presence of asbestos fines (AF) as loose fibre bundles in some of the 500 ml samples of fill material analysed, and friable asbestos (FA) as weathered fibre plaster material in one sample (HSB17, refer to Appendix C.4.2) provided a line of evidence that fill materials had the potential for weathered ACM to be present which had degraded into fibre bundles of chrysotile asbestos.

Fill materials on the Site were readily distinguishable from the underlying undisturbed natural soils materials which were described as medium to high plasticity, brown to brown/orange silty clays which are shown in the following photograph.

Plate 3: Natural soil materials comprising red/brown silty clays

Validation works confirmed that fill materials have been removed from the Site to expose the underlying natural soil materials, and were inspected by the SQP and/or an experienced Tetra Tech Coffey environmental scientist under the supervision of the SQP. Finished excavation levels were also cleared by a Licenced Asbestos Assessor (LAA).

At the completion of the works a final clearance inspection (systematic site walkover) was undertaken for surface soils across the Site. No ACM or residual fill was observed to be present on the Site at the time of inspection so far as reasonably practicable (i.e. fill soils had been removed across the Site).

270 (500 ml) validation samples were collected from natural soil at the Site[1]. Asbestos was not reported in 267 of the 270 validation samples collected within the Site boundary.

The presence of asbestos was reported in three of the validation samples collected within the Site boundary. These samples were collected from a service trench which was observed to be excavated into natural materials (refer to Figure 8, Appendix A) and included:

- T02_B which reported an estimated concentration of asbestos fines (AF) (as chrysotile loose fibre bundles) of 0.0029% w/w asbestos which exceeded the NEPM Health Screening Level (HSL) Residential A criteria of 0.001%
- T04_W1 which reported a concentration of AF (as chrysotile loose fibre bundles) of 0.0011% which is approximately equal to the NEPM HSL-A criteria of 0.001%
- T05_B which reported a concentration of AF (as chrysotile loose fibre bundles) of 0.00026% which was below NEPM HSL-A criteria of 0.001%.

**No free fibre (trace / respirable) asbestos was reported in any of the 270 samples analysed.**

Section 2.1.2 of NEPM Schedule B1 states:

> "*Investigation and screening levels are not clean-up or response levels nor are they desirable soil quality criteria. Investigation and screening levels are intended for assessing existing contamination and to trigger consideration of an appropriate site-specific risk-based approach or appropriate risk management options when they are exceeded. The use of investigation and screening levels as default remediation criteria may result in unnecessary remediation and increased development costs, unnecessary disturbance to the site and local environment, and potential waste of valuable landfill space*."

In reviewing the analytical results for asbestos analysis (or any laboratory analysis for that matter) it is important to consider any exceedances of criteria in the context of the conceptual site model (CSM) as opposed to just reviewing the results in isolation or adopting the NEPM HSLs as default remediation criteria. This is particularly relevant for asbestos given the uncertainties associated with the current analytical methods typically adopted by laboratories and difficulty of quantifying asbestos in soil concentrations at low levels.

With reference to analytical methods for analysis of asbestos Section 4.10 of Schedule B1 of the NEPM outlines that:

> *"As yet there is no validated method, readily available in Australia, of reliably estimating the concentration of free asbestos fibres in soil. Soil contamination by free asbestos fibres should therefore be simply determined according to the presence or absence of fibres, in accordance with AS4964 – 2004: Method for the Qualitative identification of asbestos in bulk samples (Standards Australia 2004) by a laboratory accredited by NATA (or its mutual recognition agreement partners) for this method.*
>
> *In the case of co-located bonded ACM, FA and AF, where significant asbestos may be present as fibrous asbestos or asbestos fines (greater than 10% (in total for FA and AF) of that present in the*

[1] Samples were collected from a 5 x 5 m sampling grid which is double the density recommended in Section 4.1, Schedule B1 of the NEPM which recommends a 10 x 10 m sampling grid.

*bonded ACM alone), then laboratory analysis may be necessary to assist with impact delineation. It may be possible in the initial AS4964 procedure to obtain an estimate of the weight of asbestos (such as small ACM fragments and fibre bundles) which does not pass through the 2 mm sieve. Depending on site circumstances,* ***this information may be useful as part of a weight-of-evidence approach to assessment of asbestos soil concentrations relative to the appropriate screening levels****.*

*The nominal detection limit of the AS4964 method is around 0.01%. The examination of large sample sizes (at least 500 ml is recommended) may improve the likelihood of identifying asbestos material in the greater than 2 mm fraction.*

The assessment framework for asbestos in the NEPM is based on the Western Australian Department of Health (DoH) (2009) *Guidelines for the assessment, remediation and management of asbestos-contaminated sites in Western Australia* which were revised in 2021[2] (WA Guidelines). The WA Guidelines provide further clarification on the application of the HSLs for AF/FA.

*"The derivation of the screening level for AF was fixed for all site uses because of the difficulty quantifying fine material (especially loose fibre and fibre bundle concentrations). In other words, accurate quantification between 0.01% and 0.001% asbestos (weight/weight) is not feasible….*

*For AF, it is possible to estimate the mass of loose asbestos fibres observed under a low power stereo microscope using AS 4964 Section 8.2.3 (m). The ability of a laboratory to report a concentration of asbestos in soil will depend on the sample size, level of contamination, the representativeness and homogeneity of the sample, and sampling and analytical limitations.* ***It is important to remember that a sample result provides an estimate of contamination****…..*

*Discussion on results should include information on the impact area represented by the sample and how the sample results relate to the assessment criteria. Similar to other contaminants, decision making against criteria should be based on all the information available from the site investigation rather than on individual sample results. In some cases, statistical interpretation of data in accordance with the ASC NEPM and DWER guidelines may be useful but should be well justified.*

*In the case of AF, a few low-level concentration detects may sometimes be construed as trivial, incidental or background, especially if contamination is not suggested by site history or the main contamination contributing to the source of fibre has been removed.* ***The context and use of a conceptual site model that reflects the relevant exposure scenarios and the frequency and occurrence of other positive and negative results should be considered****."*

As outlined in both the NEPM and WA Guidelines, visible ACM or FA should be used as the primary measure of contamination, where conditions are met. Section 3.4.1 of the WA Guidelines states:

*If contamination is from broken asbestos cement sheeting or other bonded ACM, where the material retains its integrity, any co-located AF (smaller size fraction material) may be considered 'trivial' in proportion to the bulk bonded ACM source. In these circumstances, the investigation and remediation areas can be assessed and validated using bonded ACM as the primary measure of contamination.*

*The presence of other building or industrial waste material may suggest/provide evidence for the presence of asbestos contamination.*

*It may also be possible to visibly distinguish bulk FA in soil. However, FA mixed in soil may not be visible and may be best sampled as AF (see Chapter 5).*

In regard to validation sampling Section 6.8 of the WA Guidelines states:

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

*Validation will be necessary for remediation works. For all validation activities, no matter how simple or complex, the evaluation and reporting of a remediation methodology must be adequately recorded throughout the course of a project.*

*Any validation sampling should be based on the recommended sampling methods in Chapter 5. Validation to verify completion of remedial activities should be determined as part of the RAP. For example, the validation of excavated asbestos-contamination where boundaries of the waste or fill can be readily distinguished can be based on removing material until natural soils are revealed, or another change in a condition indicative of non-impacted soil is evident. The decision parameters and confirmation of remediation must be recorded.*

Tetra Tech Coffey notes that the reported laboratory validation results should be considered in this context (i.e. that the impacted fill domain has been removed across the Site to natural soil).

## Site Specific Criteria

Both the NEPM and WA Guidelines reference the adoption of a tier 2 (site specific) assessment of risks should be undertaken where exceedances of tier 1 screening levels (NEPM HSLs) are reported (or a conservative management approach adopted).

Based on the reported results exceeding the NEPM HSLs being limited to single exceedance (the result for T04_W1 should be considered as equal to 0.001%) and considering the remediation approach adopted (removal of impacted domain), in accordance with the NEPM and WA guidelines, Tetra Tech Coffey do not consider that a detailed site specific risk assessment is required to support that the risks posed to future site users are acceptably low. However, further consideration of site-specific conditions is provided below as part of adopting a multiple lines of evidence approach.

Section 3.9 of the WA Guidelines recognises that in certain circumstances the derivation of site-specific clean up levels (SSCLs) may be appropriate with consideration to site specific parameters that will not change with time such as soil character (soil type). Additional guidance on adopting SSCLs is provided in Appendix three of the WA Guidelines.

Appendix 3 of the WA Guidelines 2021 outlines that soil character (soil type) in conjunction with the mineralogical form of asbestos can be considered in the derivation of SSCLs:

*The basis for the soil character mitigating potential for asbestos fibre release is primarily related to moisture content and also the presence of clay or silt. When present at sufficient levels, clay and silt have been shown by Addison (1998) and separately by Swartjes and Tromp (2008) to reduce the fibre releasability by factors of 10 or more depending on their order of magnitude.*

*The sandy and often dry soils of many WA urban centres, especially on the coast, do not meet these conditions and hence the basis for applying an adjustment factor in the derivation of the screening criteria[3].*

*If it can be demonstrated that soil will maintain the moisture content of 10% or more into perpetuity and there is substantial clay/silt content for the area impacted by asbestos, then this soil mitigation feature will be considered to be met. A soil moisture probe capable of reporting within ± 5% would be sufficient. The moisture content may be difficult to prove in the longer term, especially with projected climate changes, but features such as substantial year-round rainfall or depth of contamination may be of assistance.*

*For clay/silt content, this feature will be deemed to be achieved if the impacted soil can be classified as Fine Grain Soils – Silts and Clays under the AS 1726:2019 (more than 35% of soil, excluding oversize fraction, is less than 0.075mm).*

[3] WA DoH has taken a more conservative approach (by a factor of 10) than Swartjes & Tromp (2008) to take account of the greater dryness and dust-generating potential of many local soils and the practice of treating all forms of asbestos (e.g. crocidolite, amosite, chrysotile and actinolite) as equivalent in terms of human health risk.

*Regarding the mineral form of asbestos, amphiboles, particularly crocidolite, have been reported to have higher potency for mesothelioma. For many contaminated sites, mixed fibre types are found. The practicality of demonstrating that only chrysotile is present is likely to limit the usefulness of this modifying factor, hence why it was excluded in the derivation of screening levels.*

Field observations during validation sampling indicated that natural soils at the site comprised high plasticity, brown to brown/orange CLAY. This observation is consistent with natural materials observed in the Tetra Tech Coffey (2022) *114 Newdegate Street Greenslopes Remediation Planning - Supplementary Investigation*, 11 May 2022 which described natural materials as red/brown, low plasticity silty CLAYs to medium plasticity orange/brown silty CLAYs.

Three bulk samples representative of undisturbed natural materials were collected from the Site from 0.2 m below ground surface (bgs) on the 4 April 2024 by an experienced environmental scientist. Sample locations are shown in Attachment A. Photographs of the samples are provided in Attachment B.

A description of the samples is provided below in Table A.

**Table A - Sample Descriptions**

| Sample | Description |
|---|---|
| **PSD 001** | Dark red-brown medium to high plasticity CLAY with trace medium to coarse grain gravel. |
| **PSD 002** | Red-brown medium to high plasticity CLAY, with trace fine to medium grain gravel |
| **PSD 003** | Dark red-brown medium to high plasticity CLAY with trace medium to coarse grain gravel. |

Soil samples were submitted to the NATA accredited laboratory ALS Environmental for Particle Size Distribution (PSD) analysis in accordance with AS1289.3.6.2 *Soil classification tests — Determination of the particle size distribution of a soil—Analysis by sieving in combination with hydrometer analysis*.

Laboratory results are provided in Attachment C and summarised below in Table B.

**Table B - Summary of PSD Data for Fine Fraction**

| Fraction | PSD 001 | PSD 002 | PSD 003 |
|---|---|---|---|
| **Fines (<75 µm)** | 64% | 71% | 76% |

The PSD laboratory results were consistent with site observations in previous investigation and during validation works which identified fine grain materials at the Site (clays), and that the fine grain fraction is substantially more than 35% of the soil material (recommended threshold for fine grain soils in WA Guidelines).

Review of the validation sampling laboratory analysis results (and historical laboratory analysis for site investigation works) indicates that chrysotile asbestos is the only mineral form of asbestos that has been reported in soil.

Considering the above rationale (and in accordance with the methodology outlined in the WA Guidelines), Tetra Tech Coffey considers that it is reasonable to modify the NEPM **HSL-A by a factor of 10 to 0.01% w/w asbestos**.

The AF concentrations reported in soil at T02_B, T04_W1 and T05_B were less than the modified HSL-A criteria.

## Closing

As outlined in the WA Guidelines,  the validation of ACM contamination where boundaries of the waste or fill can be readily distinguished, can be based on removing material until natural soils are revealed.

This approach of removal of the entirety of the impacted domain (which was undertaken for the remediation of the Site), is particularly important for asbestos given the difficulties with delineating impacts where it may be

associated with historically imported / buried fill, as is the case with the site, and due to the inherent uncertainties associated with validating removal via laboratory analysis.

Risks posed by asbestos in soil are associated with disturbance of the soils/asbestos such that potentially respirable asbestos fibres may be generated that pose a risk to on-site receptors (human health). The removal of the entirety of the impacted domain (to natural soil) provides a high level of confidence that the potential future risks to on-site receptors are acceptably low (negligible) and can be readily verified by visual inspection of the Site (i.e. where natural soils are clearly distinguishable from the fill). This approach also provides confidence that no isolated 'hot spots' of impacted material may remain that may pose a risk.

Both the extent of any asbestos contamination and the total amount of asbestos that may be present are a consideration for any risk assessment (i.e. impact on the potential likelihood that asbestos may be disturbed in the future). Removal of the entirety of the impacted domain (to the site boundaries) and the laboratory analysis of a large number of soil validation samples reporting no asbestos provides a high level of confidence in the absence of asbestos in soil at concentrations that may pose a risk to future on-site receptors.

Notwithstanding the above, Tetra Tech Coffey considers that adopting a modified (site specific) criteria for asbestos in soil (0.01%) for the remaining natural soils is appropriate in accordance with the WA Guidelines methodology. All validation results were less than this criteria which provides a further line of evidence that risks at the site posed by asbestos are low and acceptable.

Accordingly the detection of asbestos in T02_B, T04_W1 and T05_B are not considered to pose an unacceptable risk to human health and not preclude the Site as being assessed as suitable for any use.

In assessing the Site as suitable for any use it is noted that the remediation of the Site (as confirmed by validation works) removed fill materials from the Site which was the source of ACM on the Site which required remediation.

## ATTACHMENT A – SAMPLE LOCATIONS

## LEGEND

- Excavation Floor Validation Point
- Headfort Street Boundary Validation Point
- Newdegate Street Boundary Validation Point
- Northern Boundary Validation Point
- Eastern Boundary Validation Point
- Horizontal Extent of Excavation
- Manhole Cover
- Surveyed Property Boundary
- PSD sample location

SOURCE
Site boundary and investigation locations from Tetra Tech Coffey.
Aerial imagery from Nearmap (capture date: 31/10/2023)

N

0 2.5 5 m

SCALE **1:200**
PAGE SIZE: **A3**
PROJECTION: **GDA 1994 MGA Zone 56**

DEPARTMENT OF VETERAN AFFAIRS

DVA GREENSLOPES
114 NEWDEGATE STREET, GREENSLOPES, QLD

# ATTACHMENT A

**DRAFT**

## PSD Samples

TETRA TECH COFFEY

DATE: **08.01.24** PROJECT: **754-BNEEN282781** FILE: **282781_VAL_F008_GIS**

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SAVED BY: GANGULATAPATTU | 08.01.24 12:33 PM
DOC REFERENCE: \\TT.LOCAL\COFS772\S\GIS\282781_BNEEN_DVA_GREENSLOPES\1_DVA\GREENSLOPES\GIS\APRX\282781_VAL_FIGS_A.APRX | LAYOUT:282781_VAL_F008_GIS_1

## ATTACHMENT B – SAMPLE PHOTOGRAPHS

**PSD 01**

**PSD 02**

PSD 03

## ATTACHMENT C - LABORATORY RESULTS

# Certificate of Analysis

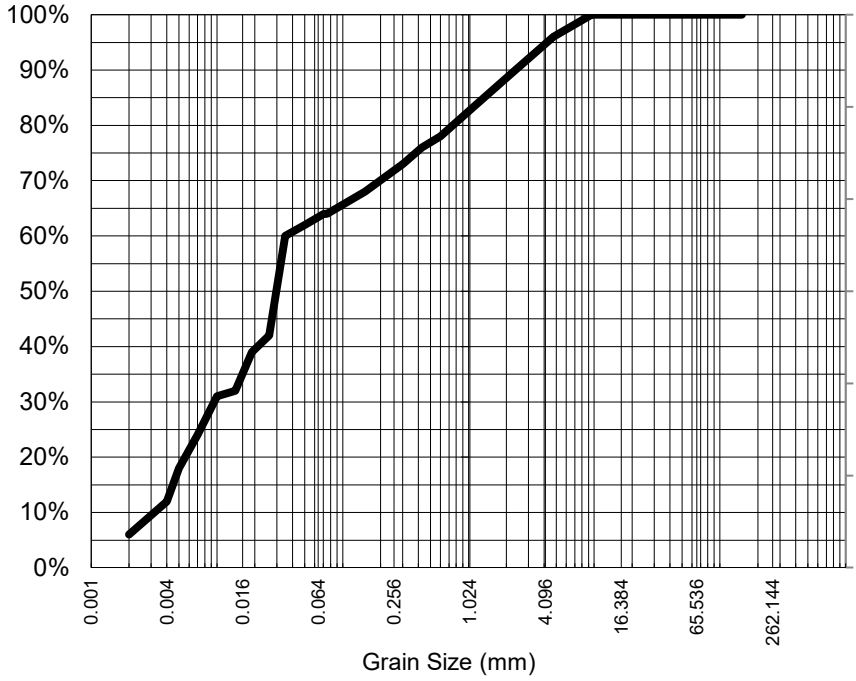
ALS Laboratory Group Pty Ltd
2 Byth Street
Stafford, QLD 4053
pH 07 3243 7222
samples.brisbane@alsenviro.com

**ALS Environmental**

**Brisbane QLD**

| | | | |
|---|---|---|---|
| **CLIENT:** | JEREMY WICKS | **DATE REPORTED:** | 10-Apr-2024 |
| **COMPANY:** | TETRA TECH COFFEY PTY LTD | **DATE RECEIVED:** | 4-Apr-2024 |
| **ADDRESS:** | Level 5<br>12 Creek Street<br>Brisbane Qld, Australia | **REPORT NO:** | EB2411175-007 / PSD |
| **PROJECT:** | | **SAMPLE ID:** | PSD 001 - 240404 |

## Particle Size Distribution




| Particle Size (mm) | % Passing |
|---|---|
| | |
| | |
| | |
| | |
| 9.50 | 100% |
| 4.75 | 96% |
| 2.36 | 90% |
| 1.18 | 84% |
| 0.600 | 78% |
| 0.425 | 76% |
| 0.300 | 73% |
| 0.150 | 68% |
| 0.075 | 64% |
| Particle Size (microns) | |
| 50 | 62% |
| 35 | 60% |
| 26 | 42% |
| 19 | 39% |
| 14 | 32% |
| 10 | 31% |
| 7 | 24% |
| 5 | 18% |
| 2 | 6% |

| | |
|---|---|
| Median Particle Size (mm)* | 0.030 |

## Analysis Notes

*Samples analysed as received.*

*Median Particle Size is not covered under the current scope of ALS's NATA accreditation.*

**Sample Comments:**

**Analysed:** 8-Apr-24

**Loss on Pretreatment** NA

**Limit of Reporting:** 1%

**Sample Description:**

**Dispersion Method** Shaker

**Test Method:** AS1289.3.6.2/AS1289.3.6.3

**Soil Particle Density (<2.36mm)** 2.65

**NATA Accreditation: 825 Site: Brisbane**
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NATA
WORLD RECOGNISED ACCREDITATION

**Satish Trivedi**
Soil Senior Chemist
***Authorised Signatory***

# Certificate of Analysis

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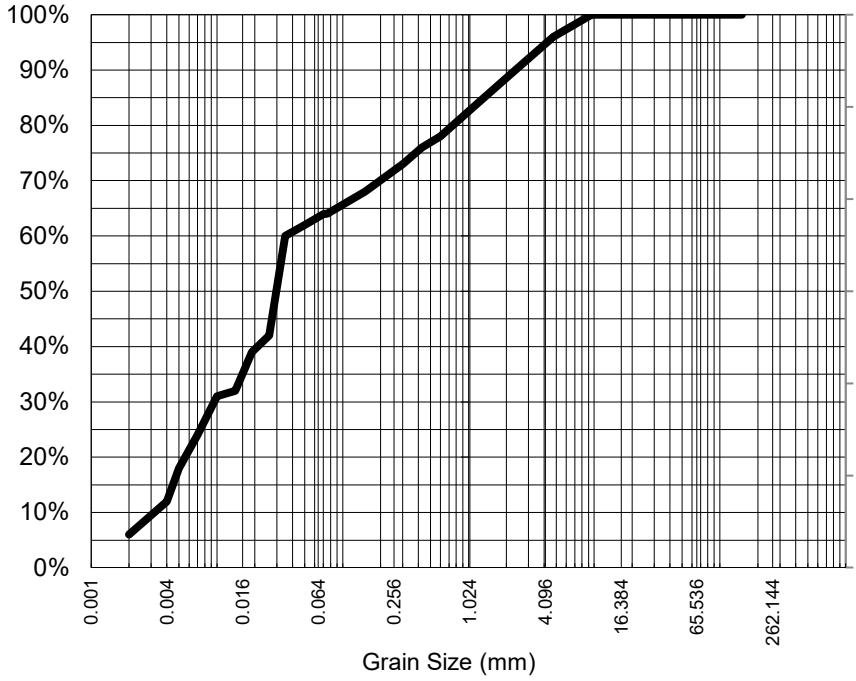
**ALS Environmental**

**Brisbane QLD**

| | | | |
|---|---|---|---|
| **CLIENT:** | JEREMY WICKS | **DATE REPORTED:** | 10-Apr-2024 |
| **COMPANY:** | TETRA TECH COFFEY PTY LTD | **DATE RECEIVED:** | 4-Apr-2024 |
| **ADDRESS:** | Level 5<br>12 Creek Street<br>Brisbane Qld, Australia | **REPORT NO:** | EB2411175-007DUP / PSD |
| **PROJECT:** | | **SAMPLE ID:** | PSD 001 - 240404 |

## Particle Size Distribution




| Particle Size (mm) | % Passing |
|---|---|
| | |
| | |
| | |
| | |
| 9.50 | 100% |
| 4.75 | 96% |
| 2.36 | 90% |
| 1.18 | 84% |
| 0.600 | 78% |
| 0.425 | 76% |
| 0.300 | 73% |
| 0.150 | 68% |
| 0.075 | 64% |
| Particle Size (microns) | |
| 50 | 62% |
| 35 | 60% |
| 26 | 42% |
| 19 | 39% |
| 14 | 32% |
| 10 | 31% |
| 7 | 24% |
| 5 | 18% |
| 2 | 6% |

| | |
|---|---|
| Median Particle Size (mm)* | 0.030 |

## Analysis Notes

*Samples analysed as received.*

*Median Particle Size is not covered under the current scope of ALS's NATA accreditation.*

**Sample Comments:**

**Analysed:** 8-Apr-24

**Loss on Pretreatment** NA

**Limit of Reporting:** 1%

**Sample Description:**

**Dispersion Method** Shaker

**Test Method:** AS1289.3.6.2/AS1289.3.6.3

**Soil Particle Density (<2.36mm)** 2.65

**NATA Accreditation: 825 Site: Brisbane**
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**Satish Trivedi**
Soil Senior Chemist
***Authorised Signatory***

# Certificate of Analysis

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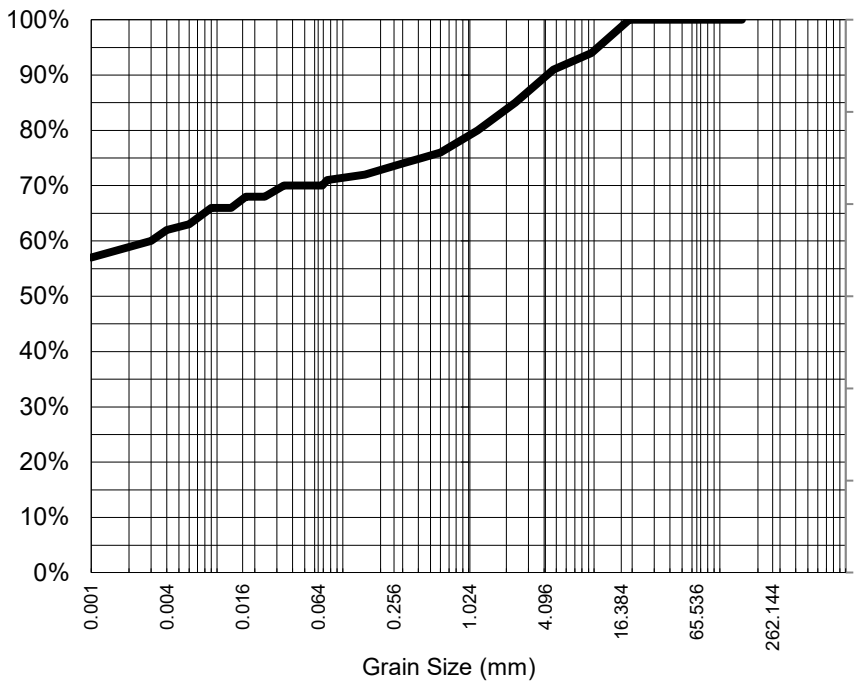
**ALS Environmental**

**Brisbane QLD**

| | | | |
|---|---|---|---|
| **CLIENT:** | JEREMY WICKS | **DATE REPORTED:** | 10-Apr-2024 |
| **COMPANY:** | TETRA TECH COFFEY PTY LTD | **DATE RECEIVED:** | 4-Apr-2024 |
| **ADDRESS:** | Level 5<br>12 Creek Street<br>Brisbane Qld, Australia | **REPORT NO:** | EB2411175-008 / PSD |
| **PROJECT:** | | **SAMPLE ID:** | PSD 002 - 240404 |

## Particle Size Distribution




| Particle Size (mm) | % Passing |
|---|---|
| | |
| | |
| | |
| 19.0 | 100% |
| 9.50 | 94% |
| 4.75 | 91% |
| 2.36 | 85% |
| 1.18 | 80% |
| 0.600 | 76% |
| 0.425 | 75% |
| 0.300 | 74% |
| 0.150 | 72% |
| 0.075 | 71% |
| Particle Size (microns) | |
| 48 | 70% |
| 34 | 70% |
| 24 | 68% |
| 17 | 68% |
| 13 | 66% |
| 9 | 66% |
| 6 | 63% |
| 4 | 62% |
| 1 | 57% |

| | |
|---|---|
| Median Particle Size (mm)* | <0.006 |

## Analysis Notes

*Samples analysed as received.*

*Median Particle Size is not covered under the current scope of ALS's NATA accreditation.*

**Sample Comments:**

**Analysed:** 8-Apr-24

**Loss on Pretreatment** NA

**Limit of Reporting:** 1%

**Sample Description:**

**Dispersion Method** Shaker

**Test Method:** AS1289.3.6.2/AS1289.3.6.3

**Soil Particle Density (<2.36mm)** 2.63

**NATA Accreditation: 825 Site: Brisbane**
This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. This document shall not be reproduced, except in full.

NATA
WORLD RECOGNISED ACCREDITATION

**Satish Trivedi**
Soil Senior Chemist
***Authorised Signatory***

# Certificate of Analysis

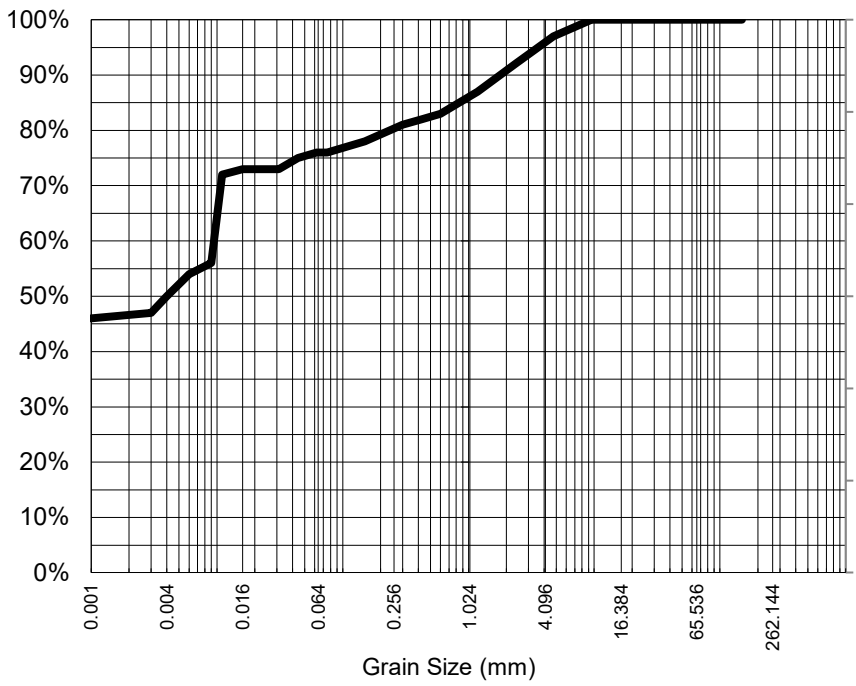
ALS Laboratory Group Pty Ltd
2 Byth Street
Stafford, QLD 4053
pH 07 3243 7222
samples.brisbane@alsenviro.com

**ALS Environmental**

**Brisbane QLD**

| | | | |
|---|---|---|---|
| **CLIENT:** | JEREMY WICKS | **DATE REPORTED:** | 10-Apr-2024 |
| **COMPANY:** | TETRA TECH COFFEY PTY LTD | **DATE RECEIVED:** | 4-Apr-2024 |
| **ADDRESS:** | Level 5<br>12 Creek Street<br>Brisbane Qld, Australia | **REPORT NO:** | EB2411175-009 / PSD |
| **PROJECT:** | | **SAMPLE ID:** | PSD 003 - 240404 |

## Particle Size Distribution




| Particle Size (mm) | % Passing |
|---|---|
| | |
| | |
| | |
| | |
| 9.50 | 100% |
| 4.75 | 97% |
| 2.36 | 92% |
| 1.18 | 87% |
| 0.600 | 83% |
| 0.425 | 82% |
| 0.300 | 81% |
| 0.150 | 78% |
| 0.075 | 76% |
| Particle Size (microns) | |
| 44 | 75% |
| 31 | 73% |
| 22 | 73% |
| 16 | 73% |
| 11 | 72% |
| 9 | 56% |
| 6 | 54% |
| 4 | 50% |
| 1 | 46% |

| | |
|---|---|
| Median Particle Size (mm)* | <0.006 |

## Analysis Notes

*Samples analysed as received.*

*Median Particle Size is not covered under the current scope of ALS's NATA accreditation.*

**Sample Comments:**

**Analysed:** 8-Apr-24

**Loss on Pretreatment** NA

**Limit of Reporting:** 1%

**Sample Description:**

**Dispersion Method** Shaker

**Test Method:** AS1289.3.6.2/AS1289.3.6.3

**Soil Particle Density (<2.36mm)** 2.79

**NATA Accreditation: 825 Site: Brisbane**
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NATA
WORLD RECOGNISED ACCREDITATION

**Satish Trivedi**
Soil Senior Chemist
***Authorised Signatory***

# APPENDIX K: SUPPORTING DOCUMENTS

## K.1 SITE IDENTIFICATION INFORMATION

Department of Environment and Science (DES)
ABN 46 640 294 485
400 George St Brisbane, Queensland 4000
GPO Box 2454, Brisbane QLD 4001, AUSTRALIA
www.des.qld.gov.au

# SEARCH RESPONSE

ENVIRONMENTAL MANAGEMENT REGISTER (EMR)
CONTAMINATED LAND REGISTER (CLR)

Jeremy Wicks
Level 5, 12 Creek Street, Brisbane
Brisbane QLD 4000

Transaction ID: 50650489 EMR Site Id: 148512 18 December 2020
Cheque Number:
Client Reference:

This response relates to a search request received for the site:
Lot: 123 Plan: RP46047

## EMR RESULT

The above site IS included on the Environmental Management Register.
Lot: 123 Plan: RP46047
Address: 51 HEADFORT STREET
GREENSLOPES QLD 4120

The site has been subject to contamination from a hazardous contaminant as follows:
HAZARDOUS CONTAMINANT - This site has been subject to a hazardous contaminant. Refer to the summary given below.
Elevated concentrations of organochlorine pesticides (DDD/DDT/DDE and Aldrin/Dieldrin) identified on site above the nominated investigation levels.

## CLR RESULT

The above site is NOT included on the Contaminated Land Register.

## ADDITIONAL ADVICE

All search responses include particulars of land listed in the EMR/CLR when the search was generated.
The EMR/CLR does NOT include:-

1. land which is contaminated land (or a complete list of contamination) if DES has not been notified
2. land on which a notifiable activity is being or has been undertaken (or a complete list of activities) if DES has not been notified

If you have any queries in relation to this search please phone 13QGOV (13 74 68)

**Administering Authority**

Department of Environment and Science (DES)
ABN 46 640 294 485
400 George St Brisbane, Queensland 4000
GPO Box 2454, Brisbane QLD 4001, AUSTRALIA
www.des.qld.gov.au

# SEARCH RESPONSE

ENVIRONMENTAL MANAGEMENT REGISTER (EMR)
CONTAMINATED LAND REGISTER (CLR)

Jeremy Wicks
Level 5, 12 Creek Street, Brisbane
Brisbane QLD 4000

Transaction ID: 50650490 EMR Site Id: 148513 18 December 2020
Cheque Number:
Client Reference:

This response relates to a search request received for the site:
Lot: 124 Plan: RP46047

## EMR RESULT

The above site IS included on the Environmental Management Register.
Lot: 124 Plan: RP46047
Address: 53 HEADFORT STREET
GREENSLOPES QLD 4120

The site has been subject to contamination from a hazardous contaminant as follows:
HAZARDOUS CONTAMINANT - This site has been subject to a hazardous contaminant. Refer to the summary given below.
Elevated concentrations of organochlorine pesticides (DDD/DDT/DDE and Aldrin/Dieldrin) identified on site above the nominated investigation levels.

## CLR RESULT

The above site is NOT included on the Contaminated Land Register.

## ADDITIONAL ADVICE

All search responses include particulars of land listed in the EMR/CLR when the search was generated.
The EMR/CLR does NOT include:-

1. land which is contaminated land (or a complete list of contamination) if DES has not been notified
2. land on which a notifiable activity is being or has been undertaken (or a complete list of activities) if DES has not been notified

If you have any queries in relation to this search please phone 13QGOV (13 74 68)

**Administering Authority**

Department of Environment and Science (DES)
ABN 46 640 294 485
400 George St Brisbane, Queensland 4000
GPO Box 2454, Brisbane QLD 4001, AUSTRALIA
www.des.qld.gov.au

# SEARCH RESPONSE

ENVIRONMENTAL MANAGEMENT REGISTER (EMR)
CONTAMINATED LAND REGISTER (CLR)

Jeremy Wicks
Level 5, 12 Creek Street, Brisbane
Brisbane QLD 4000

Transaction ID: 50650488 EMR Site Id: 148514 18 December 2020
Cheque Number:
Client Reference:

This response relates to a search request received for the site:
Lot: 125 Plan: RP46047

## EMR RESULT

The above site IS included on the Environmental Management Register.
Lot: 125 Plan: RP46047
Address: 55 HEADFORT STREET
GREENSLOPES QLD 4120

The site has been subject to contamination from a hazardous contaminant as follows:
HAZARDOUS CONTAMINANT - This site has been subject to a hazardous contaminant. Refer to the summary given below.
Elevated concentrations of organochlorine pesticides (DDD/DDT/DDE and Aldrin/Dieldrin) identified on site above the nominated investigation levels.

## CLR RESULT

The above site is NOT included on the Contaminated Land Register.

## ADDITIONAL ADVICE

All search responses include particulars of land listed in the EMR/CLR when the search was generated.
The EMR/CLR does NOT include:-

1. land which is contaminated land (or a complete list of contamination) if DES has not been notified
2. land on which a notifiable activity is being or has been undertaken (or a complete list of activities) if DES has not been notified

If you have any queries in relation to this search please phone 13QGOV (13 74 68)

**Administering Authority**

# Current Title Search

**Queensland Titles Registry Pty Ltd**
**ABN 23 648 568 101**

| | | | |
|---|---|---|---|
| **Title Reference:** | **12255073** | **Search Date:** | 06/09/2024 14:22 |
| **Date Title Created:** | 07/12/1945 | **Request No:** | 49257182 |
| **Previous Title:** | 11441181 | | |

## ESTATE AND LAND

Estate in Fee Simple

LOT 123 REGISTERED PLAN 46047
Local Government: BRISBANE CITY

LOT 124 REGISTERED PLAN 46047
Local Government: BRISBANE CITY

LOT 125 REGISTERED PLAN 46047
Local Government: BRISBANE CITY

## REGISTERED OWNER

REPATRIATION COMMISSION

## EASEMENTS, ENCUMBRANCES AND INTERESTS

1. Rights and interests reserved to the Crown by
Deed of Grant No. 10196143 (POR 102A)
Deed of Grant No. 19506154 (POR 102)

## ADMINISTRATIVE ADVICES

NIL

## UNREGISTERED DEALINGS

NIL

** End of Current Title Search **

COPYRIGHT QUEENSLAND TITLES REGISTRY PTY LTD [2024]
Requested by: D-ENQ TITLES QUEENSLAND

# Current Title Search

**Queensland Titles Registry Pty Ltd**
**ABN 23 648 568 101**

| | | | |
|---|---|---|---|
| **Title Reference:** | **12255073** | **Search Date:** | 06/09/2024 14:23 |
| **Date Title Created:** | 07/12/1945 | **Request No:** | 49257214 |
| **Previous Title:** | 11441181 | | |

## ESTATE AND LAND

Estate in Fee Simple

LOT 123 REGISTERED PLAN 46047
Local Government: BRISBANE CITY

LOT 124 REGISTERED PLAN 46047
Local Government: BRISBANE CITY

LOT 125 REGISTERED PLAN 46047
Local Government: BRISBANE CITY

## REGISTERED OWNER

REPATRIATION COMMISSION

## EASEMENTS, ENCUMBRANCES AND INTERESTS

1. Rights and interests reserved to the Crown by
Deed of Grant No. 10196143 (POR 102A)
Deed of Grant No. 19506154 (POR 102)

## ADMINISTRATIVE ADVICES

NIL

## UNREGISTERED DEALINGS

NIL

** End of Current Title Search **

COPYRIGHT QUEENSLAND TITLES REGISTRY PTY LTD [2024]
Requested by: D-ENQ TITLES QUEENSLAND

# Current Title Search

**Queensland Titles Registry Pty Ltd**
**ABN 23 648 568 101**

| | | | |
|---|---|---|---|
| **Title Reference:** | **12255073** | **Search Date:** | 06/09/2024 14:25 |
| **Date Title Created:** | 07/12/1945 | **Request No:** | 49257247 |
| **Previous Title:** | 11441181 | | |

## ESTATE AND LAND

Estate in Fee Simple

LOT 123 REGISTERED PLAN 46047
Local Government: BRISBANE CITY

LOT 124 REGISTERED PLAN 46047
Local Government: BRISBANE CITY

LOT 125 REGISTERED PLAN 46047
Local Government: BRISBANE CITY

## REGISTERED OWNER

REPATRIATION COMMISSION

## EASEMENTS, ENCUMBRANCES AND INTERESTS

1. Rights and interests reserved to the Crown by
Deed of Grant No. 10196143 (POR 102A)
Deed of Grant No. 19506154 (POR 102)

## ADMINISTRATIVE ADVICES

NIL

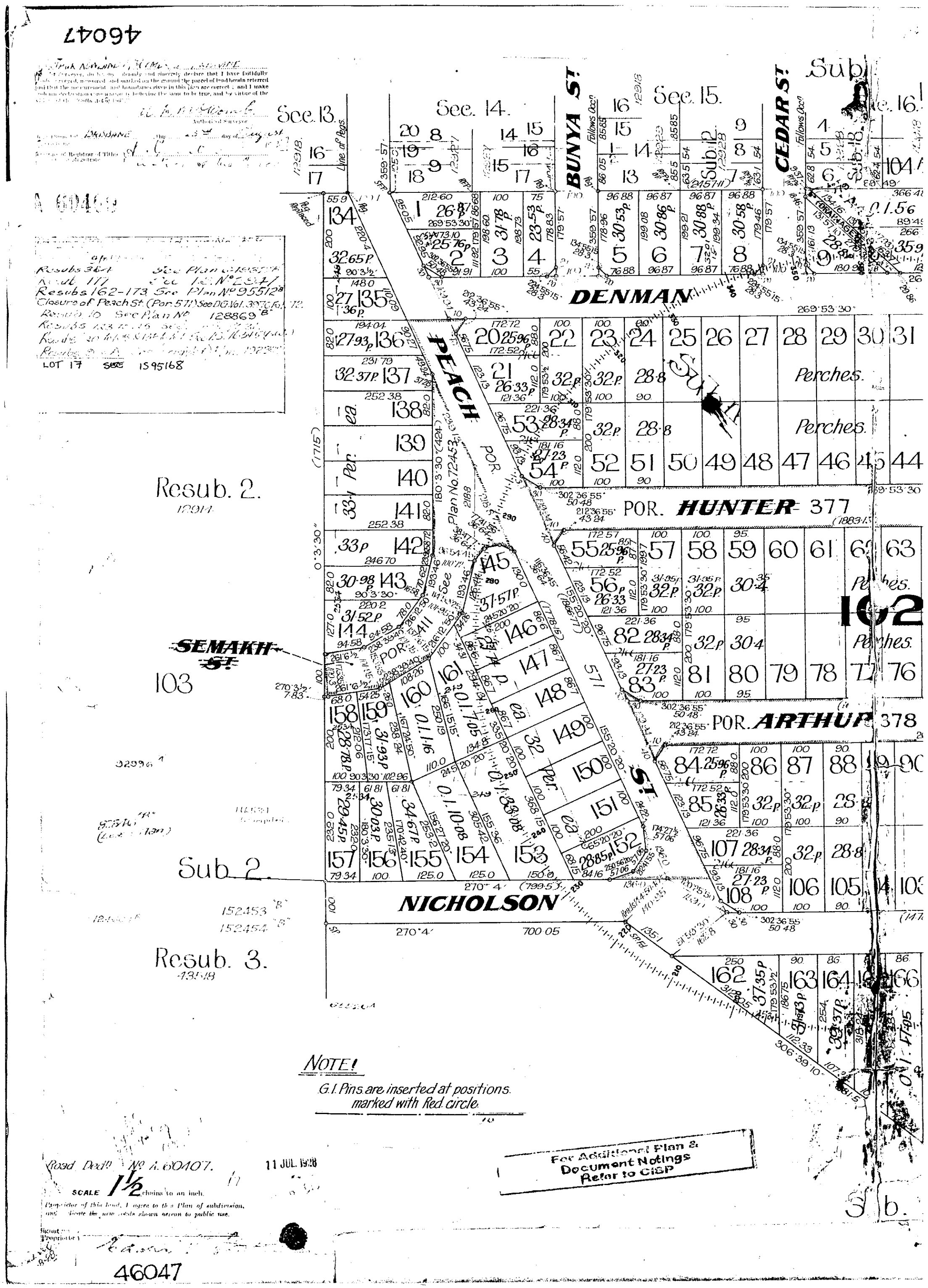
## UNREGISTERED DEALINGS

NIL

** End of Current Title Search **

COPYRIGHT QUEENSLAND TITLES REGISTRY PTY LTD [2024]
Requested by: D-ENQ TITLES QUEENSLAND

46047




Copyright protects the plan/s being ordered by you. Unauthorised reproduction or amendments are not permitted.

46047

Certificate of Title or Deed of Grant.

C.T. 255691 141-181.

HENRY ST.

THOMAS ST.

HUNTER ST.

HEADFORT ST.

MARY ST.

101

102

102A

Sub. 2.

Sub. A.

Resub. 194.

Survey of Lot (s) 1 To 178 & 179

on D.P. 46047

SURVEY RE. ~~Easeme~~

OF SUBDIVISIONS 1 To 178 & A

of Sub. 1. of Pors. 102 & 102A & of Subs. 37 & 38.

OF ~~ALIQUOT PART OF~~ PORTION NO. 101

~~OF SECTION~~

COUNTY OF Stanley.

PARISH OF Bulimba.

46047

## K.2 LOT SEARCH REPORT

LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

**Address: 51-55 Headfort Street, Greenslopes, QLD 4120**

**Date: 04 Apr 2024 14:55:10**

**Reference: LS054674 EP**

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

# Dataset Listing

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

| Dataset Name | Custodian | Supply Date | Currency Date | Update Frequency | Dataset Buffer (m) | No. Features Onsite | No. Features within 100m | No. Features in Buffer |
|---|---|---|---|---|---|---|---|---|
| Historical Bushfire Boundaries | Geoscience Australia | 19/12/2023 | 29/11/2023 | Annually | 1000 | 0 | 0 | 0 |
| Cadastre Boundaries | State of Queensland (Department of Natural Resources, Mines and Energy) and Mines) 2017 | 04/01/2024 | 04/01/2024 | Quarterly | - | - | - | - |
| Temporary Emissions Licenses | Queensland Department of Environment and Science | 06/03/2024 | 06/03/2024 | Monthly | 1000 | 0 | 0 | 0 |
| Enforcement Actions | Queensland Department of Environment and Science | 06/03/2024 | 06/03/2024 | Monthly | 1000 | 0 | 0 | 0 |
| Progressive Rehabilitation & Closure Plans - Mining | Queensland Department of Environment and Science | 10/06/2022 | 10/06/2022 | Monthly | 1000 | 0 | 0 | 0 |
| Environmental Authorities Register Current Prescribed Environmentally Relevant Activities | Queensland Department of Environment and Science | 18/01/2024 | 18/01/2024 | Monthly | 1000 | 0 | 0 | 0 |
| Environmental Authorities Register Current Resource Activities | Queensland Department of Environment and Science | 18/01/2024 | 18/01/2024 | Monthly | 1000 | 0 | 0 | 0 |
| Environmental Authorities Register Former Prescribed Environmentally Relevant Activities | Queensland Department of Environment and Science | 18/01/2024 | 18/01/2024 | Monthly | 1000 | 0 | 0 | 0 |
| Environmental Authorities Register Former Resource Activities | Queensland Department of Environment and Science | 18/01/2024 | 18/01/2024 | Monthly | 1000 | 0 | 0 | 0 |
| Defence PFAS Investigation & Management Program - Investigation Sites | Department of Defence | 06/03/2024 | 06/03/2024 | Monthly | 2000 | 0 | 0 | 0 |
| Defence PFAS Investigation & Management Program - Management Sites | Department of Defence | 06/03/2024 | 06/03/2024 | Monthly | 2000 | 0 | 0 | 0 |
| Airservices Australia National PFAS Management Program | Airservices Australia | 06/03/2024 | 06/03/2024 | Monthly | 2000 | 0 | 0 | 0 |
| Queensland Fire and Emergency Services PFAS Investigation Sites | Queensland Fire and Emergency Services | 06/03/2024 | 27/06/2022 | Monthly | 2000 | 0 | 0 | 1 |
| Defence Controlled Areas | Department of Defence | 12/01/2024 | 12/01/2024 | Quarterly | 2000 | 0 | 0 | 0 |
| Defence 3 Year Regional Contamination Investigation Program | Department of Defence | 24/01/2024 | 02/09/2022 | Quarterly | 2000 | 0 | 0 | 0 |
| National Unexploded Ordnance (UXO) | Department of Defence | 12/01/2024 | 12/01/2024 | Quarterly | 2000 | 0 | 0 | 0 |
| National Waste Management Facilities Database | Geoscience Australia | 26/05/2022 | 07/03/2017 | Annually | 1000 | 0 | 0 | 0 |
| National Liquid Fuel Facilities | Geoscience Australia | 20/09/2023 | 02/12/2020 | Annually | 1000 | 0 | 0 | 1 |
| UBD Business Directories (Premise & Intersection Matches) | Hardie Grant | | | Not required | 100 | 0 | 9 | 9 |
| UBD Business Directories (Road & Area Matches) | Hardie Grant | | | Not required | 100 | - | 5 | 5 |
| UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches) | Hardie Grant | | | Not required | 250 | 0 | 0 | 0 |
| UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches) | Hardie Grant | | | Not required | 250 | - | 0 | 0 |

| Dataset Name | Custodian | Supply Date | Currency Date | Update Frequency | Dataset Buffer (m) | No. Features Onsite | No. Features within 100m | No. Features in Buffer |
|---|---|---|---|---|---|---|---|---|
| Hydrogeology Map of Australia | Commonwealth of Australia (Geoscience Australia) | 20/03/2023 | 19/08/2019 | Annually | 1000 | 1 | 1 | 1 |
| Groundwater Boreholes | State of Queensland (Department of Natural Resources, Mines and Energy) | 15/05/2023 | 15/05/2023 | Quarterly | 2000 | 0 | 0 | 17 |
| Detailed Surface Geological Units | State of Queensland (Department of Natural Resources, Mines and Energy) | 22/05/2023 | 31/08/2022 | Annually | 1000 | 1 | - | 7 |
| Detailed Surface Geological Structures | State of Queensland (Department of Natural Resources, Mines and Energy) | 22/05/2023 | 31/08/2022 | Annually | 1000 | 0 | - | - |
| Atlas of Australian Soils | ABARES | 12/01/2024 | 17/02/2011 | Annually | 1000 | 1 | 1 | 1 |
| Atlas of Australian Acid Sulfate Soils | CSIRO | 12/01/2024 | 21/02/2013 | Annually | 1000 | 1 | 1 | 2 |
| Commonwealth Heritage List | Australian Government Department of Agriculture, Water and the Environment | 20/10/2023 | 13/04/2022 | Annually | 1000 | 0 | 0 | 0 |
| National Heritage List | Australian Government Department of Agriculture, Water and the Environment | 20/10/2023 | 13/04/2022 | Annually | 1000 | 0 | 0 | 0 |
| Heritage Register Boundaries | State of Queensland (Environment and Heritage Protection) | 24/01/2024 | 24/01/2024 | Quarterly | 1000 | 0 | 0 | 0 |
| Statewide Bushfire Prone Areas | State of Queensland (Department of Natural Resources, Mines and Energy) | 05/09/2022 | 15/07/2015 | Annually | 1000 | 0 | 0 | 4 |
| Queensland Floodplain Assessment Overlay | State of Queensland (Department of Natural Resources, Mines and Energy) | 25/05/2023 | 22/01/2023 | Annually | 1000 | 0 | 0 | 0 |
| Regulated Vegetation Management Map | Queensland Government – Department of Resources | 27/03/2023 | 27/03/2023 | Monthly | 1000 | 1 | 1 | 8 |
| Wetland Environmental Values | Queensland State Government – Department of Environment and Science | 12/10/2023 | 10/07/2022 | Annually | 1000 | 0 | 0 | 0 |
| Groundwater Dependent Ecosystems Atlas | Bureau of Meteorology | 28/10/2022 | 26/10/2022 | Annually | 1000 | 0 | 0 | 2 |
| Inflow Dependent Ecosystems Likelihood | Bureau of Meteorology | 28/10/2022 | 26/10/2022 | Annually | 1000 | 0 | 0 | 5 |

# Aerial Imagery 2023

**51-55 Headfort Street, Greenslopes, QLD 4120**

Scale:
0 25 50 75 100
Meters

Data Sources: Aerial Imagery © Aerometrex Pty Ltd

Coordinate System:
GDA 1994 MGA Zone 56

Date: 04 April 2024

# Topographic Features

**51-55 Headfort Street, Greenslopes, QLD 4120**

Scale: 0 100 200 400 Meters

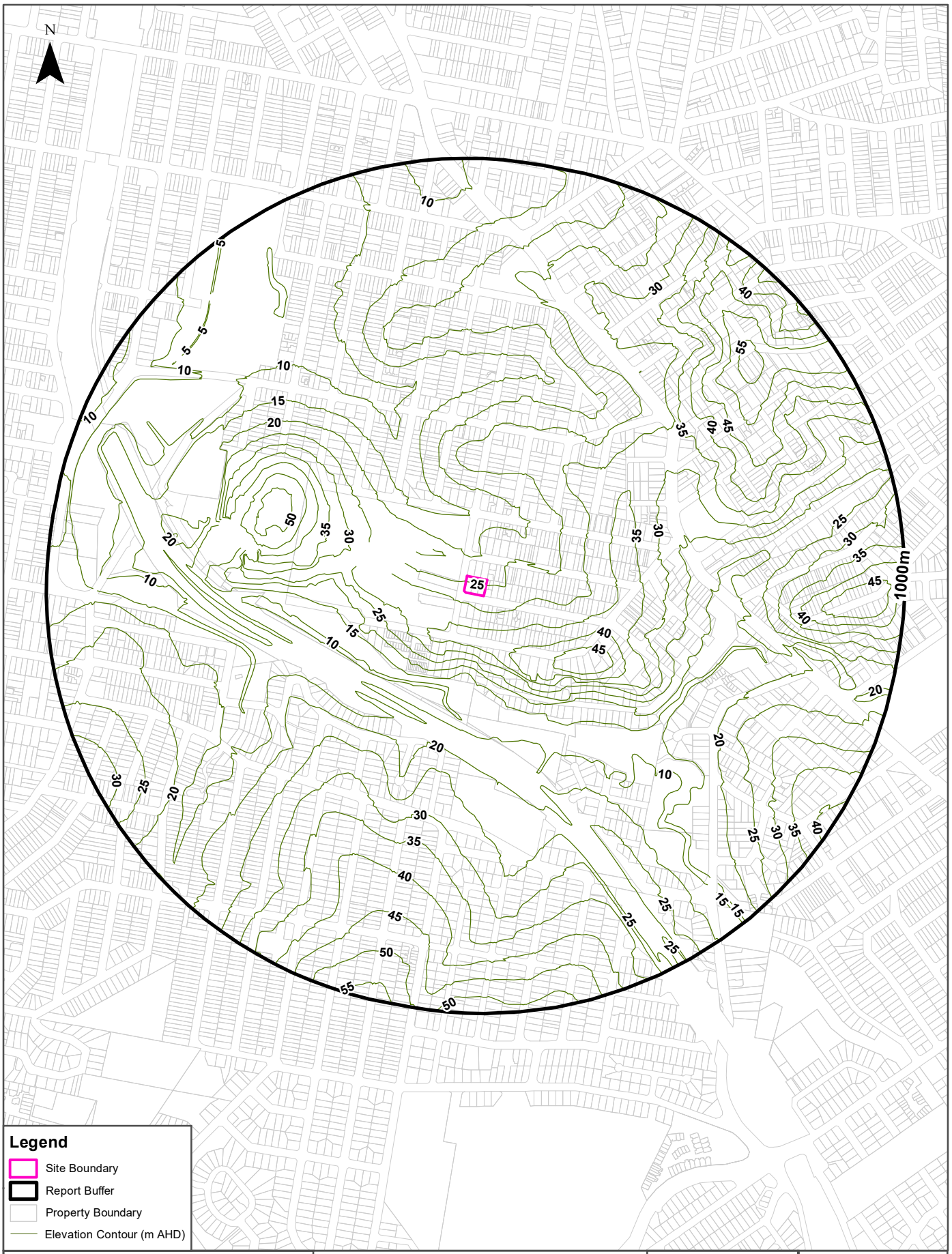
Data Sources: Property Boundaries & Topographic Data: © State of Queensland (Department of Natural Resources, Mines and Energy) 2024

Coordinate System: GDA 1994 MGA Zone 56

Date: 04 Apr 2024

# Elevation Contours (5m)

**51-55 Headfort Street, Greenslopes, QLD 4120**




Scale: 0 100 200 400 Meters

Data Sources: Property Boundaries & Topographic Data: © State of Queensland (Department of Natural Resources, Mines and Energy) 2024

Coordinate System: GDA 1994 MGA Zone 56

Date: 04 April 2024

# Emission Licences, Enforcement Actions and PRC Plans

**51-55 Headfort Street, Greenslopes, QLD 4120**

## Temporary Emissions Licences

Sites that have a Temporary Emissions Licence within the dataset buffer:

| Licence Number | Map Id | Primary Holder | Location | Activity | Status | Loc Conf | Dist' | Dir'n |
|---|---|---|---|---|---|---|---|---|
| No records in buffer | N/A | | | | | | | |

Temporary Emissions Licences Data Source: QLD Department of Environment and Science
Creative Commons Attribution 4.0 https://creativecommons.org/licenses/by/4.0/

# Emission Licences, Enforcement Actions and PRC Plans

**51-55 Headfort Street, Greenslopes, QLD 4120**

## Enforcement Actions

Sites that have been issued a statutory enforcement action within the dataset buffer:

| Enforcement No | Map Id | Enforcement Type | Name | Premise | Status | Date Issued | Loc Conf | Dist' | Dir'n |
|---|---|---|---|---|---|---|---|---|---|
| No records in buffer | N/A | | | | | | | | |

Enforcement Actions Data Source: QLD Department of Environment and Science
Creative Commons Attribution 4.0 https://creativecommons.org/licenses/by/4.0/

## Progressive Rehabilitation and Closure Plans

Sites that have a proposed or approved PRC Plan with the dataset buffer:

| PRC reference | Map Id | Permit Type | Permit Holder | Premise | Status | Data Effective | Loc Conf | Dist' | Dir'n |
|---|---|---|---|---|---|---|---|---|---|
| No records in buffer | N/A | | | | | | | | |

Progressive Rehabilitation and Closure Plans Data Source: QLD Department of Environment and Science
Creative Commons Attribution 4.0 https://creativecommons.org/licenses/by/4.0/

# Environmental Authorities Register

**51-55 Headfort Street, Greenslopes, QLD 4120**

## Current Prescribed ERA Activities

Current prescribed environmentally relevant activities within the dataset buffer.
Note: Due to the fact that not all records on the EAR have specific or current location details, some premises associated with a permit reference number may not have been mapped, and therefore will not appear in this report. For further details refer to: https://environment.ehp.qld.gov.au/env-authorities

| Permit No | Permit Status | Effective Date | Holder | Premise | Activity | Loc Conf | Dist' | Dir'n |
|---|---|---|---|---|---|---|---|---|
| N/A | No records in buffer | | | | | | | |

Current Prescribed ERA Activities Data Source: QLD Department of Environment and Science
Creative Commons Attribution 4.0 https://creativecommons.org/licenses/by/4.0/

## Current Prescribed Resource Activities

Current prescribed resource activities within the dataset buffer.
Note: Due to the fact that not all records on the EAR have specific or current location details, some premises associated with a permit reference number may not have been mapped, and therefore will not appear in this report. For further details refer to: https://environment.ehp.qld.gov.au/env-authorities

| Permit No | Permit Status | Effective Date | Holder | Premise | Activity | Loc Conf | Dist' | Dir'n |
|---|---|---|---|---|---|---|---|---|
| N/A | No records in buffer | | | | | | | |

Current Prescribed Resource Activities Data Source: QLD Department of Environment and Science
Creative Commons Attribution 4.0 https://creativecommons.org/licenses/by/4.0/

# Environmental Authorities Register

**51-55 Headfort Street, Greenslopes, QLD 4120**

## Former Prescribed ERA Activities

Former prescribed environmentally relevant activities within the dataset buffer.
Note: Due to the fact that not all records on the EAR have specific or current location details, some premises associated with a permit reference number may not have been mapped, and therefore will not appear in this report. For further details refer to: https://environment.ehp.qld.gov.au/env-authorities

| Permit No | Permit Status | Effective Date | Holder | Premise | Activity | Loc Conf | Dist' | Dir'n |
|---|---|---|---|---|---|---|---|---|
| N/A | No records in buffer | | | | | | | |

Former Prescribed ERA Activities Data Source: QLD Department of Environment and Science
Creative Commons Attribution 4.0 https://creativecommons.org/licenses/by/4.0/

## Former Prescribed Resource Activities

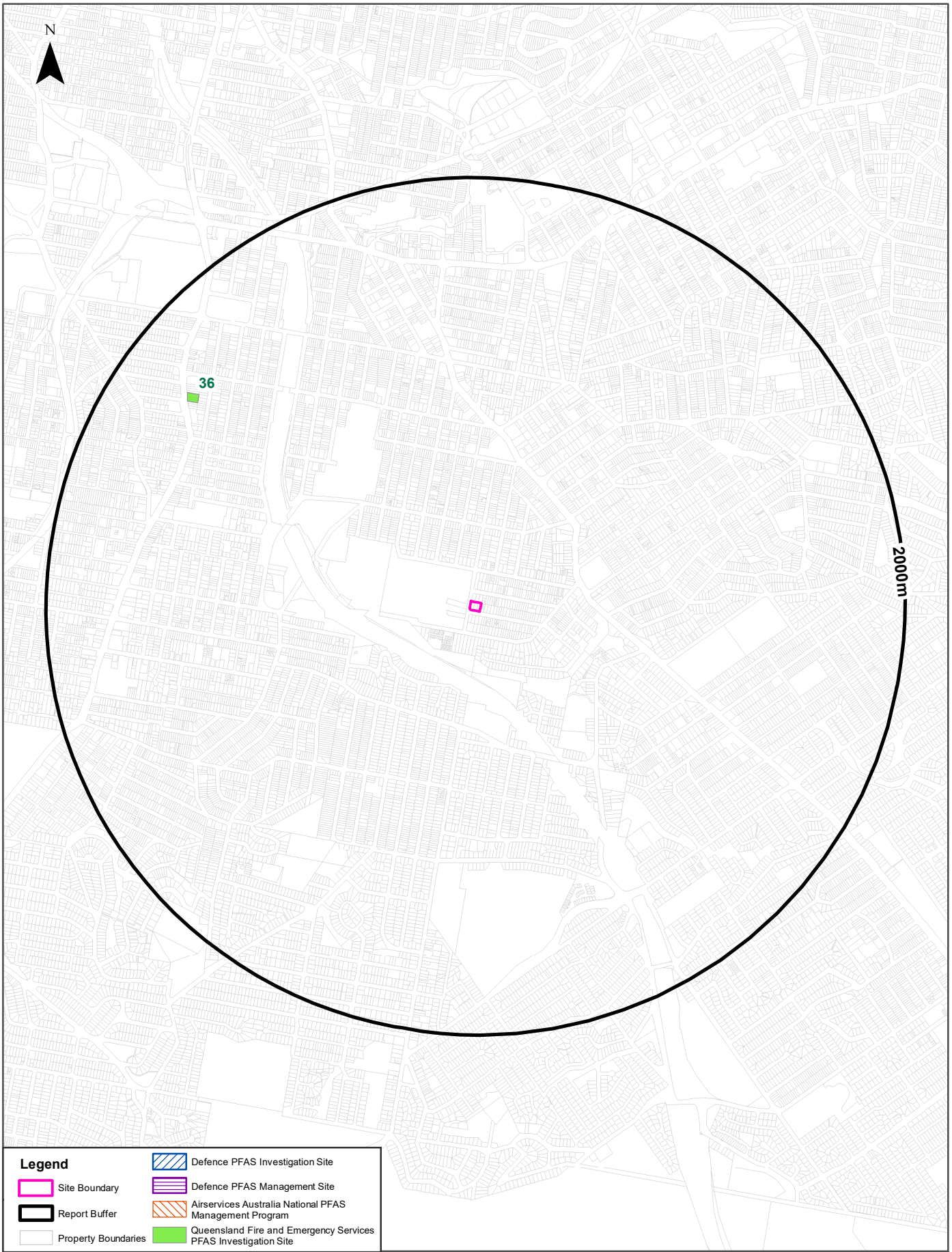
Former prescribed resource activities within the dataset buffer.
Note: Due to the fact that not all records on the EAR have specific or current location details, some premises associated with a permit reference number may not have been mapped, and therefore will not appear in this report. For further details refer to: https://environment.ehp.qld.gov.au/env-authorities

| Permit No | Permit Status | Effective Date | Holder | Premise | Activity | Loc Conf | Dist' | Dir'n |
|---|---|---|---|---|---|---|---|---|
| N/A | No records in buffer | | | | | | | |

Former Prescribed Resource Activities Data Source: QLD Department of Environment and Science
Creative Commons Attribution 4.0 https://creativecommons.org/licenses/by/4.0/

# PFAS Investigation Sites

## 51-55 Headfort Street, Greenslopes, QLD 4120




Data Sources: Property Boundaries & Topographic Data: © State of Queensland (Department of Natural Resources, Mines and Energy) 2024

Coordinate System: GDA 1994 MGA Zone 56

Date: 04 April 2024

# PFAS Investigation Sites

**51-55 Headfort Street, Greenslopes, QLD 4120**

## Defence PFAS Investigation and Management Program Investigation Sites

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

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

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

## Defence PFAS Investigation and Management Program Management Sites

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

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

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

## Airservices Australia National PFAS Management Program

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

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

Airservices Australia National PFAS Management Program Data Custodian: Airservices Australia

## Queensland Fire and Emergency Services PFAS Investigation Sites

Sites being investigated by Queensland Fire and Emergency Services for PFAS contamination within the dataset buffer:

| Map ID | Fire Station Name | PFOA (µg/L) | PFOS (∑(PFOS + PFHxS) (µg/L) | Location Confidence | Dist | Dir |
|---|---|---|---|---|---|---|
| 36 | Annerley | 0.01 | 0.05 | Premise Match | 1595m | North West |

Queensland Fire and Emgency Services PFAS investigation Sites Data Source: Queensland Fire and Emgency Services, Queensland Government

# Defence Sites and Unexploded Ordnance

**51-55 Headfort Street, Greenslopes, QLD 4120**

## Defence Controlled Areas (DCA)

Defence Controlled Areas provided by the Department of Defence within the dataset buffer:

| Site ID | Location Name | Loc Conf | Dist | Dir |
|---|---|---|---|---|
| N/A | No records in buffer | | | |

Defence Controlled Areas, Data Custodian: Department of Defence, Australian Government

## Defence 3 Year Regional Contamination Investigation Program (RCIP)

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

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

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

## National Unexploded Ordnance (UXO)

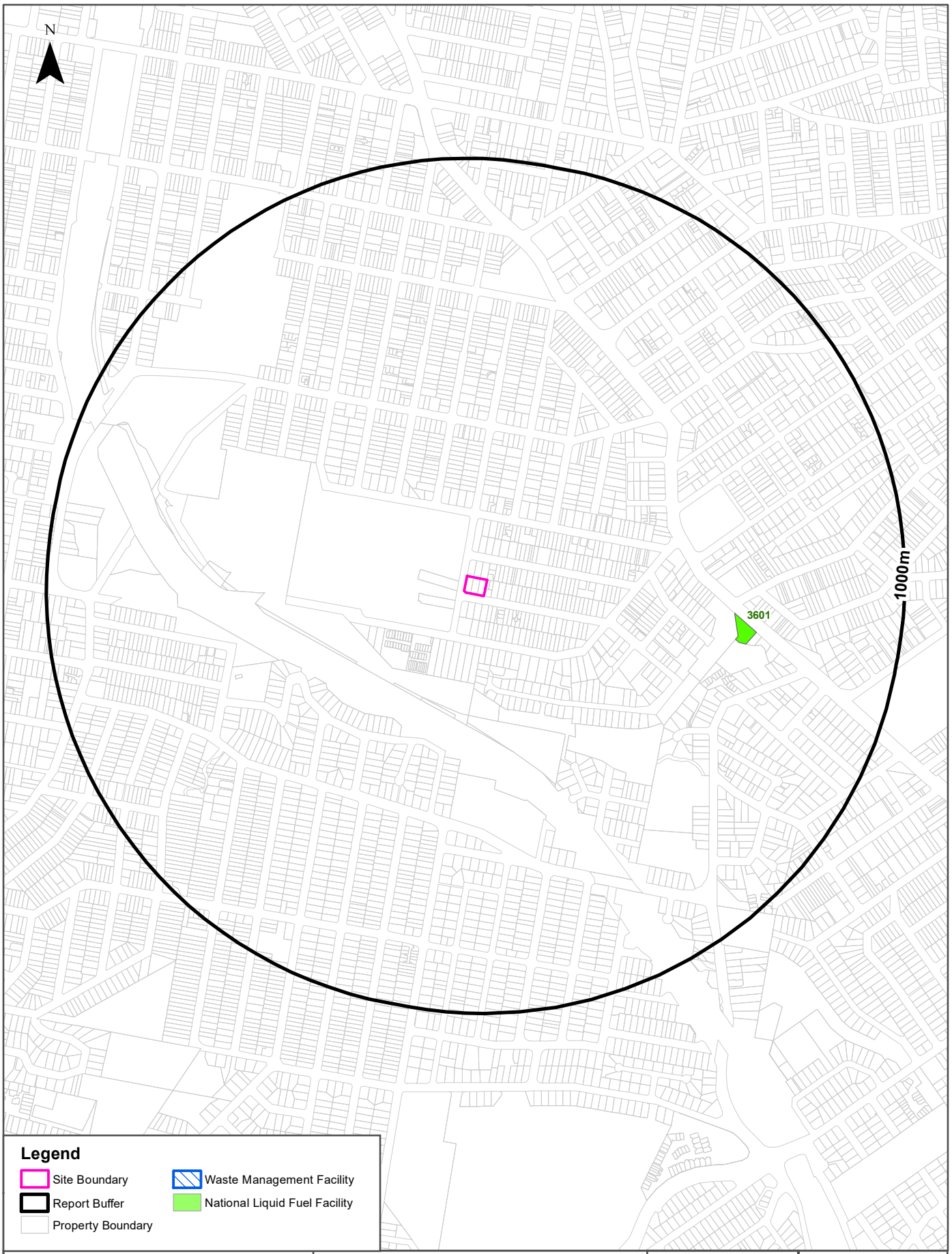
Sites which have been assessed by the Department of Defence for the potential presence of unexploded ordnance within the dataset buffer:

| Site ID | Location Name | Category | Area Description | Additional Information | Commonwealth | Loc Conf | Dist | Dir |
|---|---|---|---|---|---|---|---|---|
| N/A | No records in buffer | | | | | | | |

National Unexploded Ordnance (UXO), Data Custodian: Department of Defence, Australian Government

# Waste Management and Liquid Fuel Facilities

**51-55 Headfort Street, Greenslopes, QLD 4120**




Scale:
0 130 260 390 520
Meters

Data Sources: Property Boundaries & Topographic Data:
© State of Queensland (Department of Natural Resources, Mines and Energy) 2024

Coordinate System:
GDA 1994 MGA Zone 56

Date: 04 April 2024

# Waste Management and Liquid Fuel Facilities

**51-55 Headfort Street, Greenslopes, QLD 4120**

## National Waste Management Site Database

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

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

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

## National Liquid Fuel Facilities

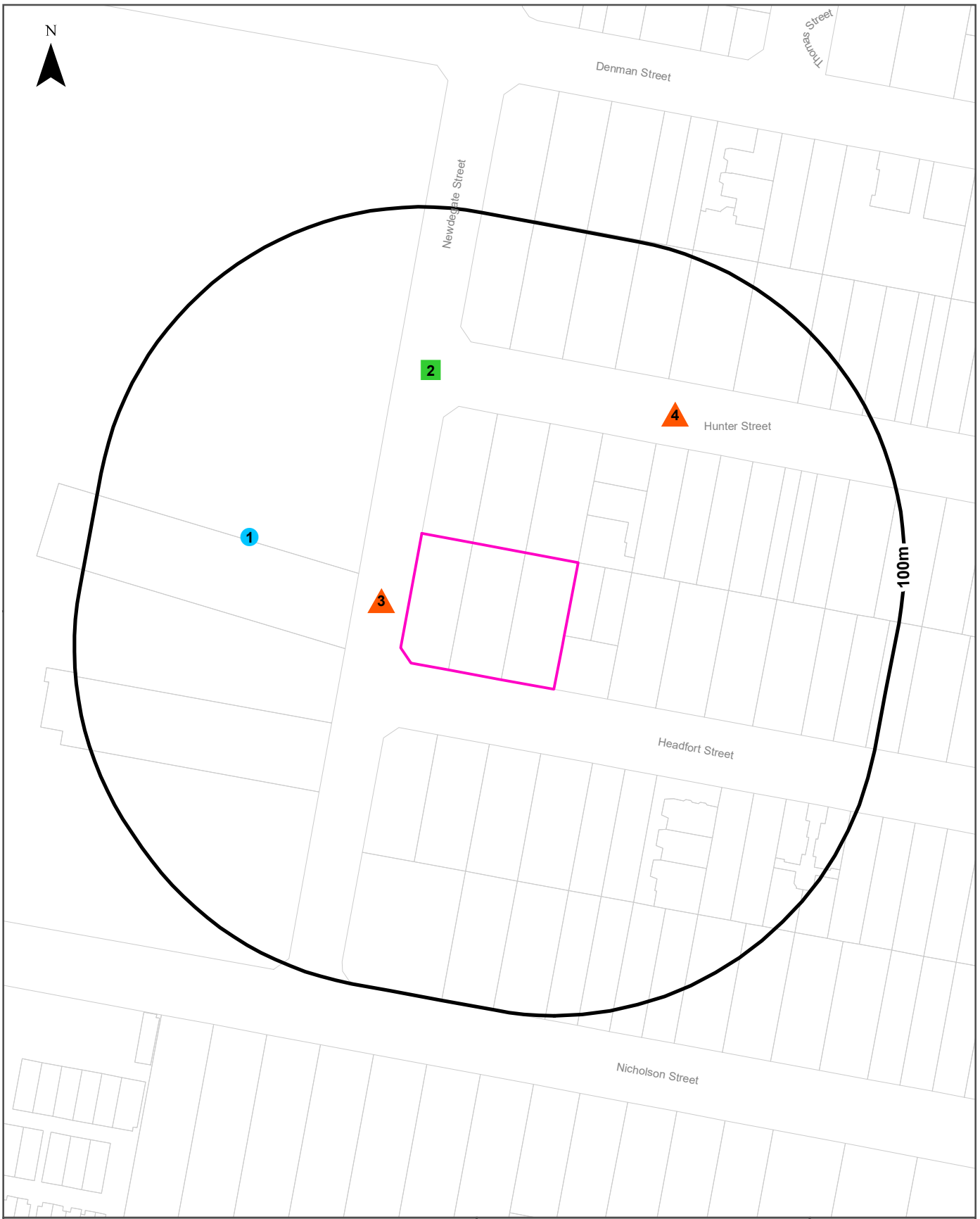
National Liquid Fuel Facilties within the dataset buffer:

| Map Id | Owner | Name | Address | Suburb | Class | Operational Status | Operator | Revision Date | Loc Conf | Dist (m) | Dir |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3601 | BP | BP Holland Park | 779 Logan Road | Holland Park | Petrol Station | Operational | | 15/07/2019 | Premise Match | 598m | East |

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

# Historical Business Directories

## 51-55 Headfort Street, Greenslopes, QLD 4120




**Legend**

- Site Boundary
- Buffer 100m
- Property Boundary
- Business directory records mapped to a specific premise
- Business directory records mapped to a road intersection
- Business directory records mapped to a road corridor
- Business directory records mapped to a general area

Scale: 0 20 40 60 80 Meters

Coordinate System: GDA 1994 MGA Zone 56

Date: 04 April 2024

Data Sources: Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018
Property Boundaries & Topographic Data: © State of Queensland (Department of Natural Resources, Mines
and Energy) 2024

# Historical Business Directories

**51-55 Headfort Street, Greenslopes, QLD 4120**

## Business Directory Records 1941 - 1994
## Premise or Road Intersection Matches

Potentially contaminative business activities extracted from Universal Business Directories from years 1994, 1986, 1980, 1974, 1968-70, 1961, 1950 & 1941, mapped to a premise or road intersection within the dataset buffer:

| Map Id | Business Activity | Premise | Ref No. | Year | Location Confidence | Distance to Property Boundary or Road Intersection | Direction |
|---|---|---|---|---|---|---|---|
| 1 | Hospitals - Repatriation. | Repatriation General Hospital, Newdegate St., Greenslopes. 4120. | 18006 | 1986 | Premise Match | 17m | West |
| | Hospitals-Repatriation | Repatriation General Hospital Newdegate St., Greenslopes. 4120 | 2772 | 1980 | Premise Match | 17m | West |
| | Hospitals-Repatriation | Repatriation General Hospital., Newdegate St. Greenslopes. 4120 | 17911 | 1974 | Premise Match | 17m | West |
| | HOSPITALS-REPATRIATION | Repatriation General Hospital., Newdegate St., Greenslopes | 17922 | 1968-70 | Premise Match | 17m | West |
| | HOSPITALS-REPATRIATION | Greenslopes Hospital., Newdegate St., Greenslopes | 17920 | 1968-70 | Premise Match | 17m | West |
| | HOSPITALS-REPATRIATION | Greenslopes Hospital., Greenslopes | 16436 | 1961 | Premise Match | 17m | West |
| | HOSPITALS-PUBLIC | Repatriation General Hospital., Newdegate St., Greenslopes | 16431 | 1961 | Premise Match | 17m | West |
| | HOSPITALS | Greenslopes Hospital, Greenslopes | 14943 | 1950 | Premise Match | 17m | West |
| 2 | CASKET AGENCIES | Spathonis, P. & Enders, C. V., 102 Newdegate St., Greenslopes | 6304 | 1961 | Road Intersection | 50m | North |

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

## Business Directory Records 1941 - 1994
## Road or Area Matches

Potentially contaminative business activities extracted from Universal Business Directories from years 1994, 1986, 1980, 1974, 1968-70, 1961, 1950 & 1941, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

| Map Id | Business Activity | Premise | Ref No. | Year | Location Confidence | Distance to Road Corridor or Area |
|---|---|---|---|---|---|---|
| 3 | MOTOR BUS PROPRIETORS | Boon, J., Newdegate St., Greenslopes | 18548 | 1950 | Road Match | 0m |
| 4 | ENGRAVERS & DIE SINKERS | Rolandsen C. & Son., Hunter St., Greenslopes | 11747 | 1961 | Road Match | 40m |
| | DIECASTERS & DIEMAKERS | Rolandsen, C. & Son., Hunter St., Greenslopes | 8916 | 1961 | Road Match | 40m |
| | ENGRAVERS & DIE SINKERS | Rolandsen, C. & Son, Hunter St., Green | 10727 | 1950 | Road Match | 40m |
| | DIE-CASTING | Rolandsen, C. & Sons, Hunter St., Greenslopes | 8265 | 1950 | Road Match | 40m |

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

# Historical Business Directories

**51-55 Headfort Street, Greenslopes, QLD 4120**

## Dry Cleaners, Motor Garages & Service Stations 1941 - 1994 Premise or Road Intersection Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, from years 1994, 1986, 1980, 1974, 1968-70, 1961, 1950 & 1941, mapped to a premise or road intersection, within the dataset buffer.

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

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

## Dry Cleaners, Motor Garages & Service Stations 1941 - 1994 Road or Area Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, from years 1994, 1986, 1980, 1974, 1968-70, 1961, 1950 & 1941, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published.

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

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

# Aerial Imagery 2020

**51-55 Headfort Street, Greenslopes, QLD 4120**

Scale:
0 25 50 75 100
Meters

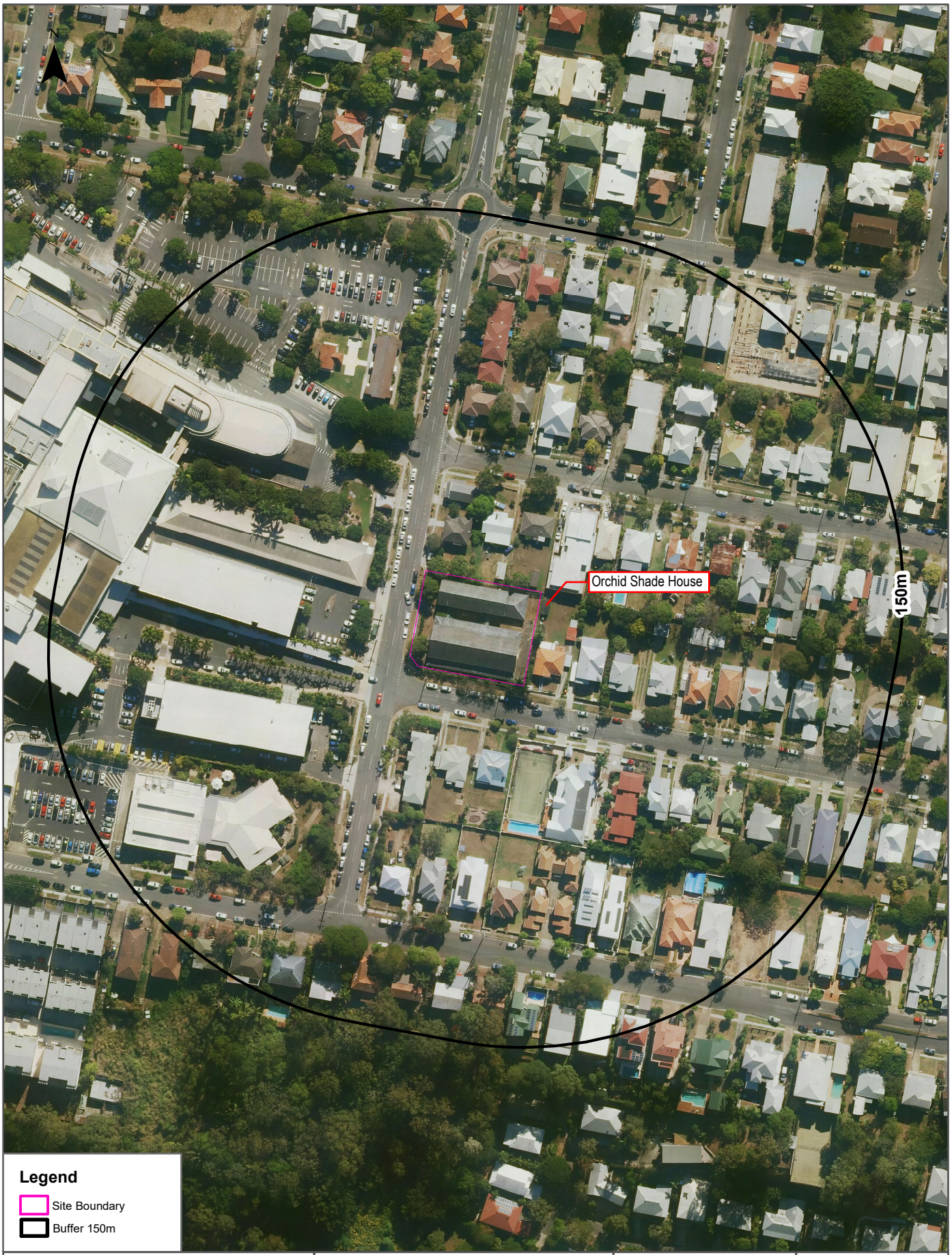
Data Sources: Aerial Imagery © Aerometrex Pty Ltd

Coordinate System:
GDA 1994 MGA Zone 56

Date: 04 April 2024

# Aerial Imagery 2016

**51-55 Headfort Street, Greenslopes, QLD 4120**




Scale:
0 25 50 75 100
Meters

Data Sources: Aerial Imagery © Aerometrex Pty Ltd

Coordinate System:
GDA 1994 MGA Zone 56

Date: 04 April 2024

# Aerial Imagery 2011

**51-55 Headfort Street, Greenslopes, QLD 4120**

Scale:
0 25 50 75 100
Meters

Data Source Aerial Imagery: © 2024 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System:
GDA 1994 MGA Zone 56

Date: 04 April, 2024

# Aerial Imagery 2007

**51-55 Headfort Street, Greenslopes, QLD 4120**

Scale:
0 25 50 75 100
Meters

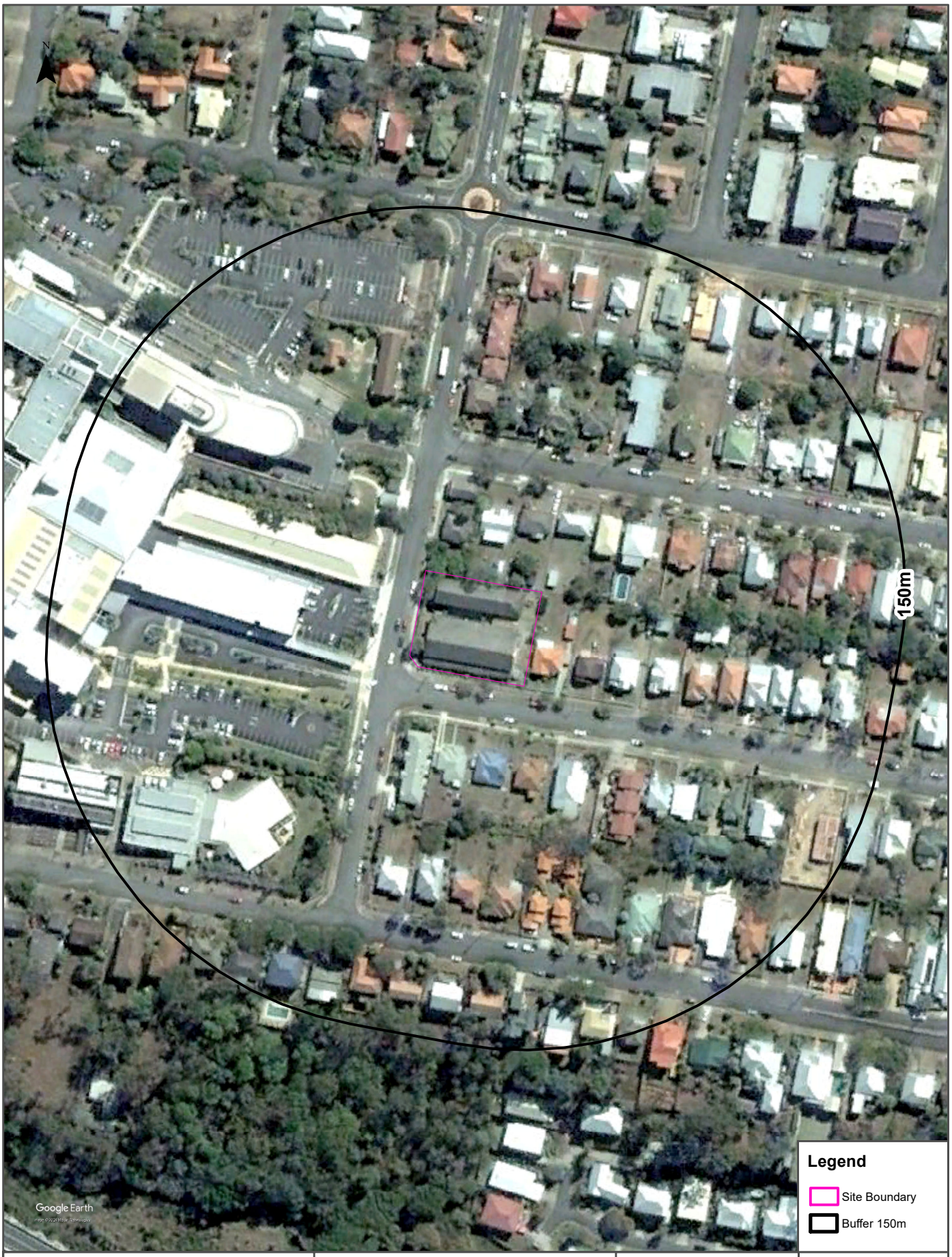
Data Sources: Aerial Imagery © Aerometrex Pty Ltd

Coordinate System:
GDA 1994 MGA Zone 56

Date: 04 April 2024

# Aerial Imagery 2004

**51-55 Headfort Street, Greenslopes, QLD 4120**




Scale:
0 25 50 75 100
Meters

Data Source Aerial Imagery: © 2024 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System:
GDA 1994 MGA Zone 56

Date: 04 April, 2024

# Aerial Imagery 2001

**51-55 Headfort Street, Greenslopes, QLD 4120**

Scale:
0 25 50 75 100
Meters

Data Sources: Aerial Imagery © Aerometrex Pty Ltd

Coordinate System:
GDA 1994 MGA Zone 56

Date: 04 April 2024

# Aerial Imagery 1994

**51-55 Headfort Street, Greenslopes, QLD 4120**

| Scale: | Data Source Aerial Imagery: © State of Queensland (Department of Natural Resources, Mines and Energy) [2024] | Coordinate System: GDA 1994 MGA Zone 56 | Date: 04 April, 2024 |
|---|---|---|---|
| 0 25 50 75 100 Meters | | | |

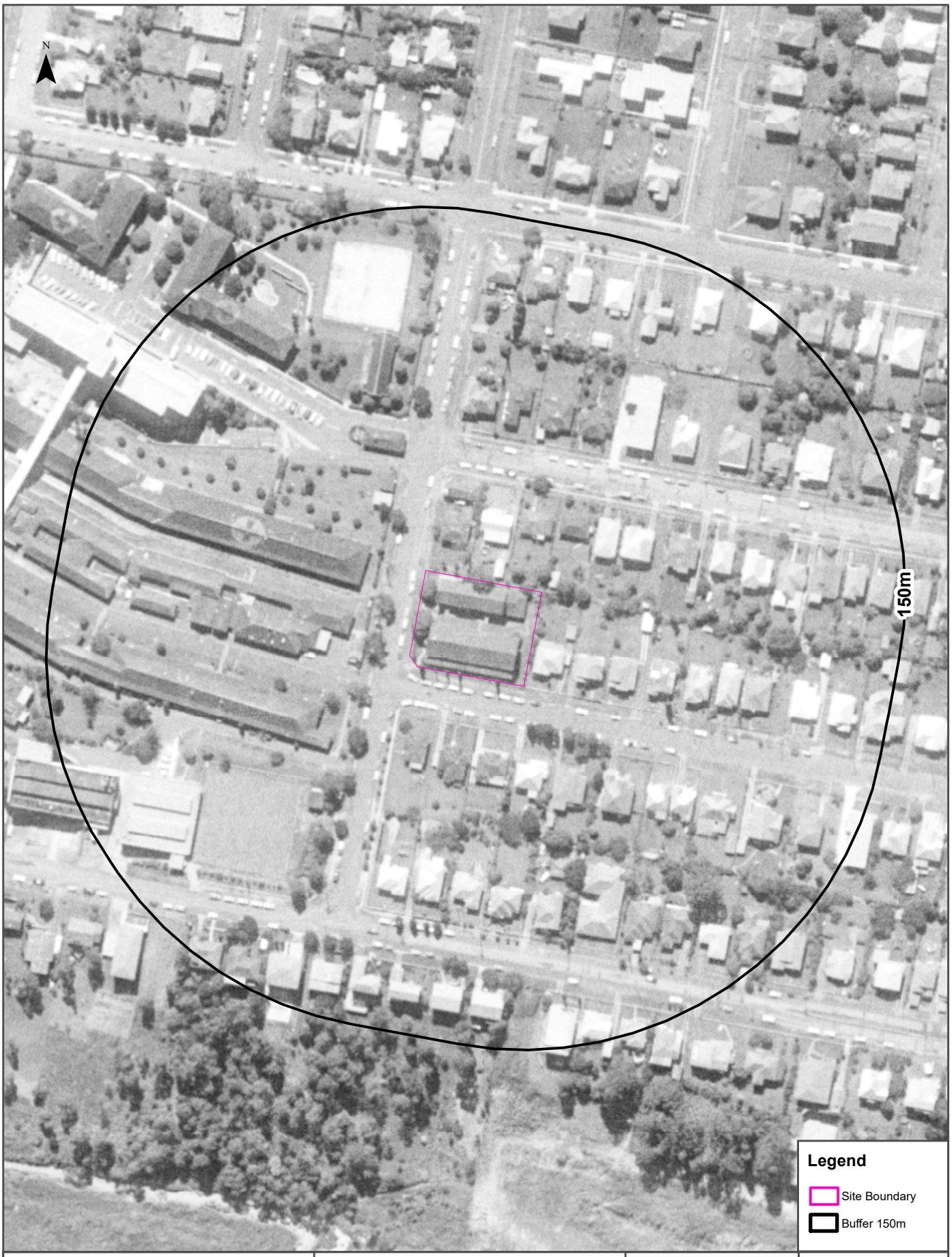
# Aerial Imagery 1983

**51-55 Headfort Street, Greenslopes, QLD 4120**

| Scale: | Data Source Aerial Imagery: © State of Queensland (Department of Natural Resources, Mines and Energy) [2024] | Coordinate System: GDA 1994 MGA Zone 56 | Date: 04 April, 2024 |
|---|---|---|---|
| 0 25 50 75 100 Meters | | | |

# Aerial Imagery 1974

**51-55 Headfort Street, Greenslopes, QLD 4120**




Scale:
0 25 50 75 100
Meters

Data Source Aerial Imagery: © State of Queensland (Department of Natural Resources, Mines and Energy) [2024]

Coordinate System: GDA 1994 MGA Zone 56

Date: 04 April, 2024

# Aerial Imagery 1964

**51-55 Headfort Street, Greenslopes, QLD 4120**

Scale:
0 25 50 75 100
Meters

Data Source Aerial Imagery: © State of Queensland (Department of Natural Resources, Mines and Energy) [2024]

Coordinate System: GDA 1994 MGA Zone 56

Date: 04 April, 2024

# Aerial Imagery 1955

**51-55 Headfort Street, Greenslopes, QLD 4120**

Scale:
0 25 50 75 100
Meters

Data Source Aerial Imagery: © State of Queensland (Department of Natural Resources, Mines and Energy) [2024]

Coordinate System: GDA 1994 MGA Zone 56

Date: 04 April, 2024

# Aerial Imagery 1946

**51-55 Headfort Street, Greenslopes, QLD 4120**

Scale:
0 25 50 75 100
Meters

Data Source Aerial Imagery: © State of Queensland (Department of Natural Resources, Mines and Energy) [2024]

Coordinate System: GDA 1994 MGA Zone 56

Date: 04 April, 2024

# Aerial Imagery 1941

**51-55 Headfort Street, Greenslopes, QLD 4120**

Scale:
0 25 50 75 100
Meters

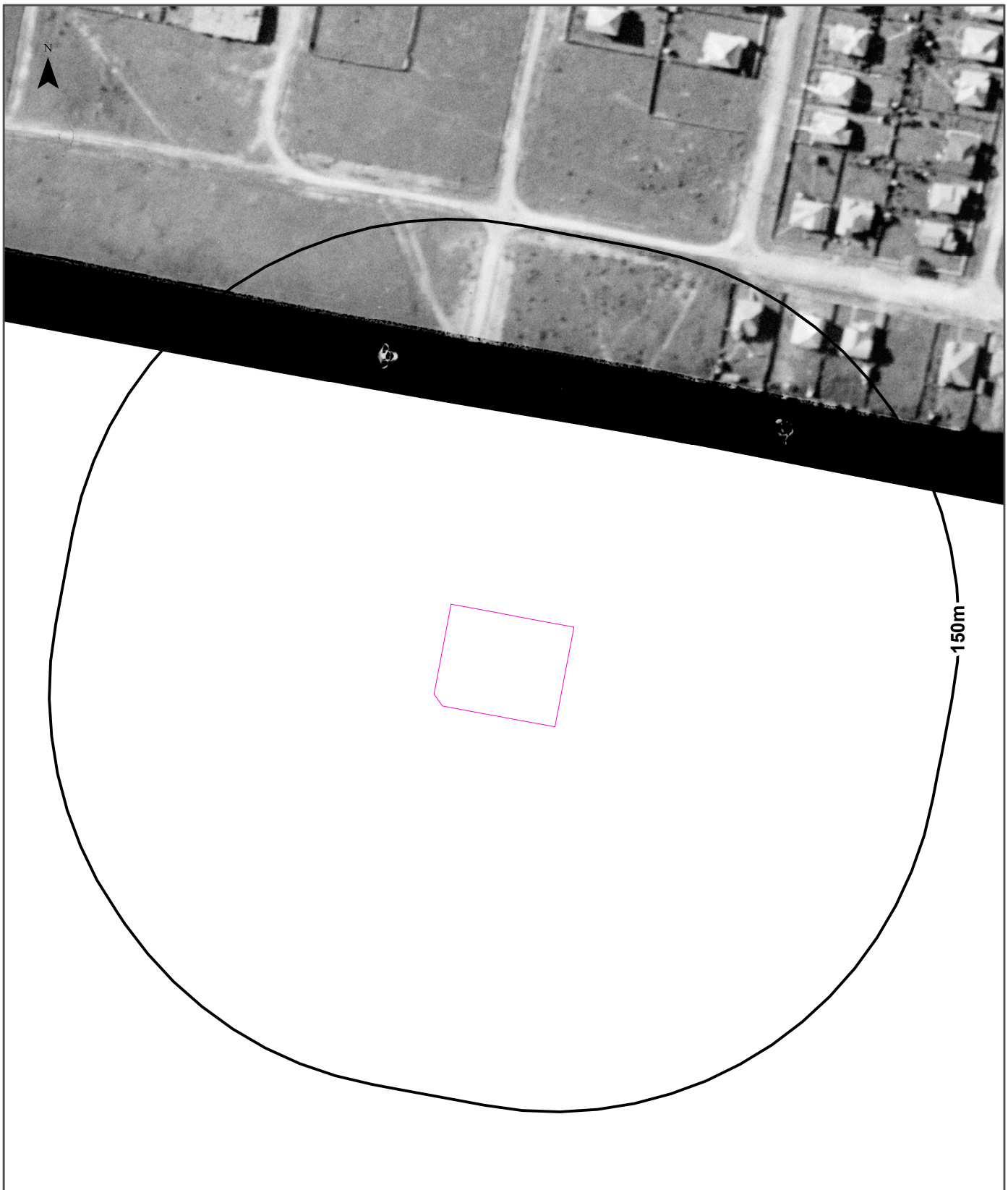
Data Source Aerial Imagery: © 2024 Geoscience Australia

Coordinate System:
GDA 1994 MGA Zone 56

Date: 04 April, 2024

# Aerial Imagery 1936

**51-55 Headfort Street, Greenslopes, QLD 4120**




**Legend**

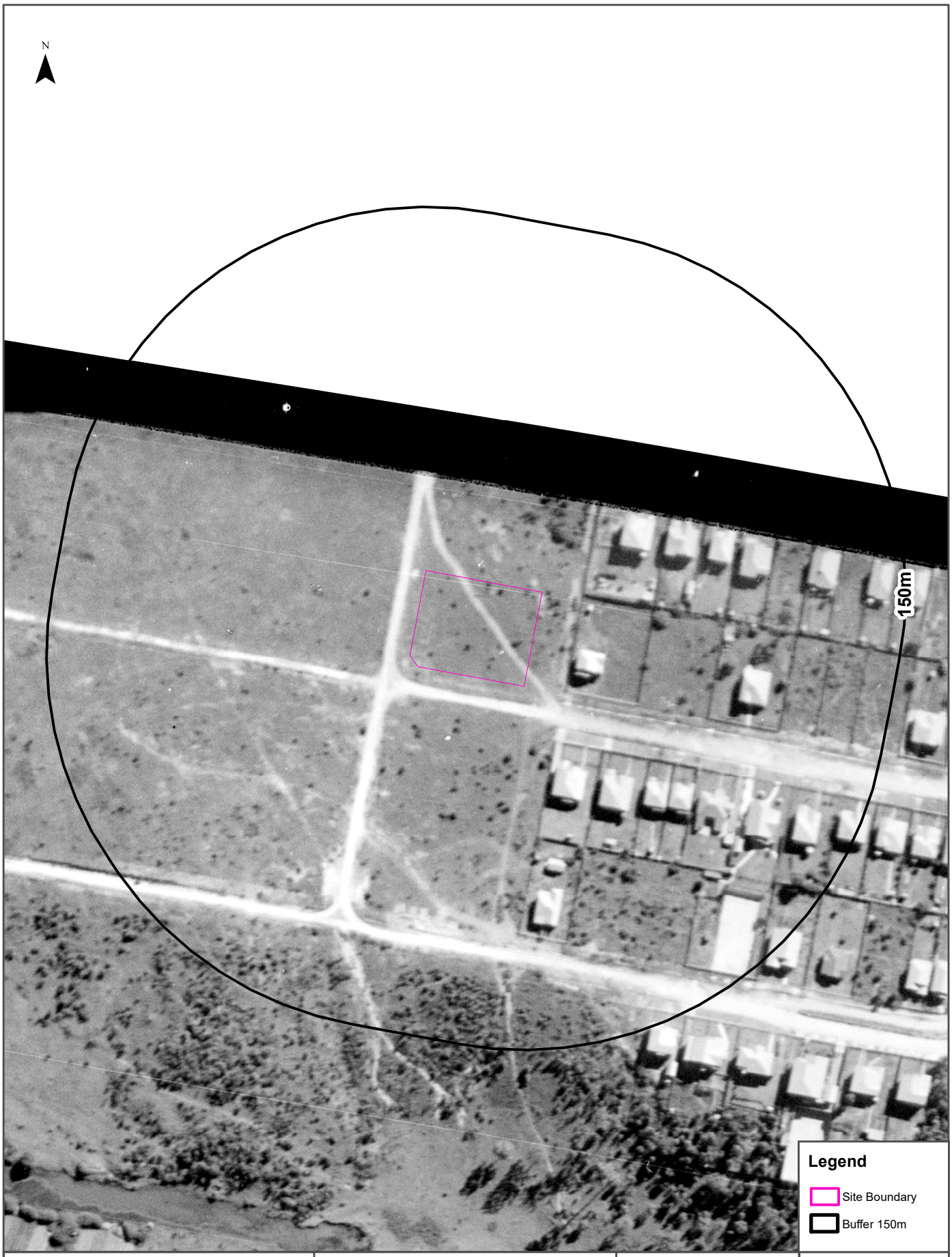
Site Boundary

Buffer 150m

| Scale: 0 25 50 Meters 75 100 | Data Source Aerial Imagery: © State of Queensland (Department of Natural Resources, Mines and Energy) [2024] | Coordinate System: GDA 1994 MGA Zone 56 | Date: 05 April 2024 |
|---|---|---|---|

# Aerial Imagery 1936

**51-55 Headfort Street, Greenslopes, QLD 4120**




Scale:
0 25 50 75 100
Meters

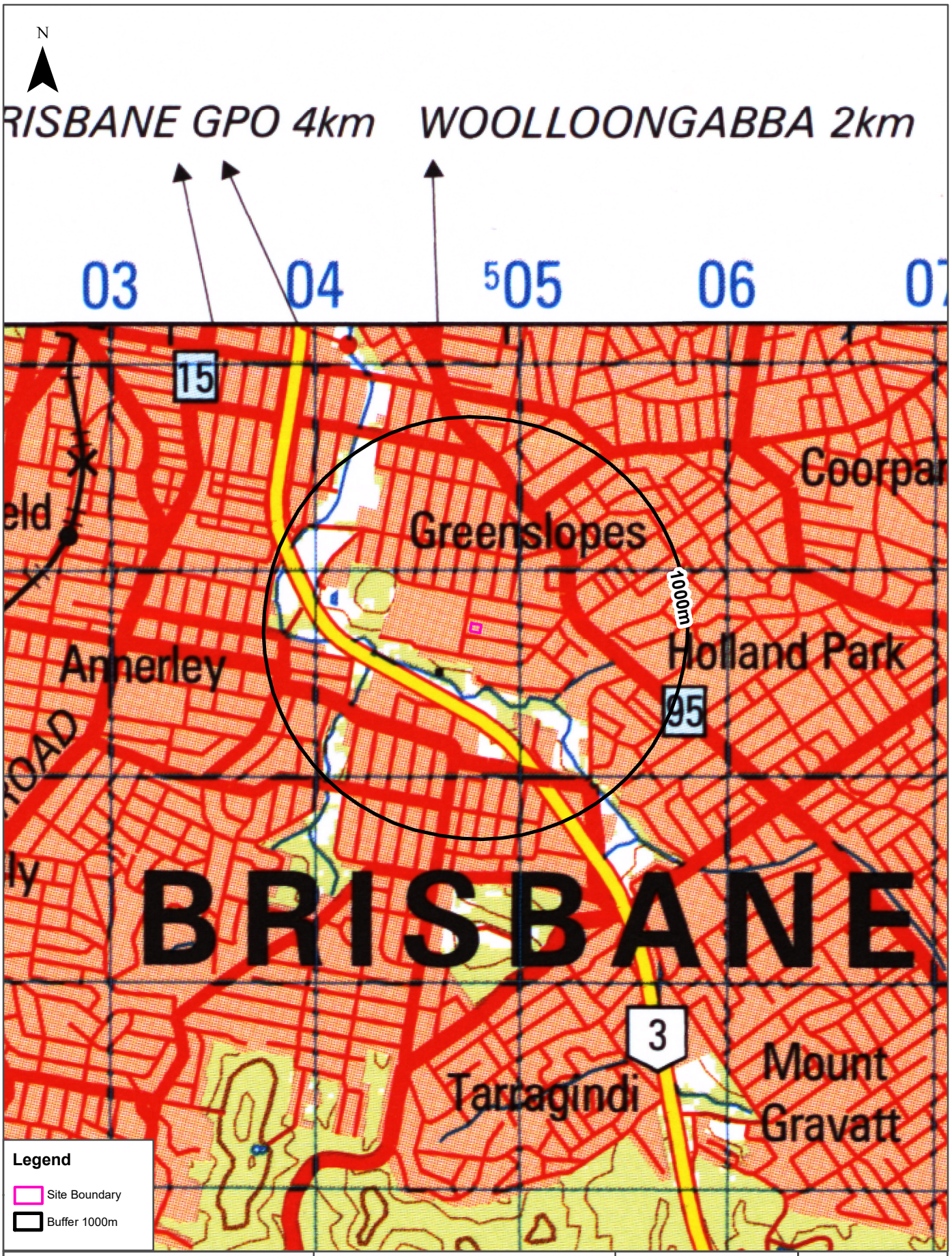
Data Source Aerial Imagery: © State of Queensland (Department of Natural Resources, Mines and Energy) [2024]

Coordinate System:
GDA 1994 MGA Zone 56

Date: 05 April 2024

# Historical Map 2002

**51-55 Headfort Street, Greenslopes, QLD 4120**




Scale: 0 200 400 800 Meters

Data Sources: NATMAP 1:100,000 Topographic Maps
Geoscience Australia

Coordinate System:
GDA 1994 MGA Zone 56

Date: 04 April 2024

# Historical Map 1981

51-55 Headfort Street, Greenslopes, QLD 4120

Scale: 0 200 400 Meters

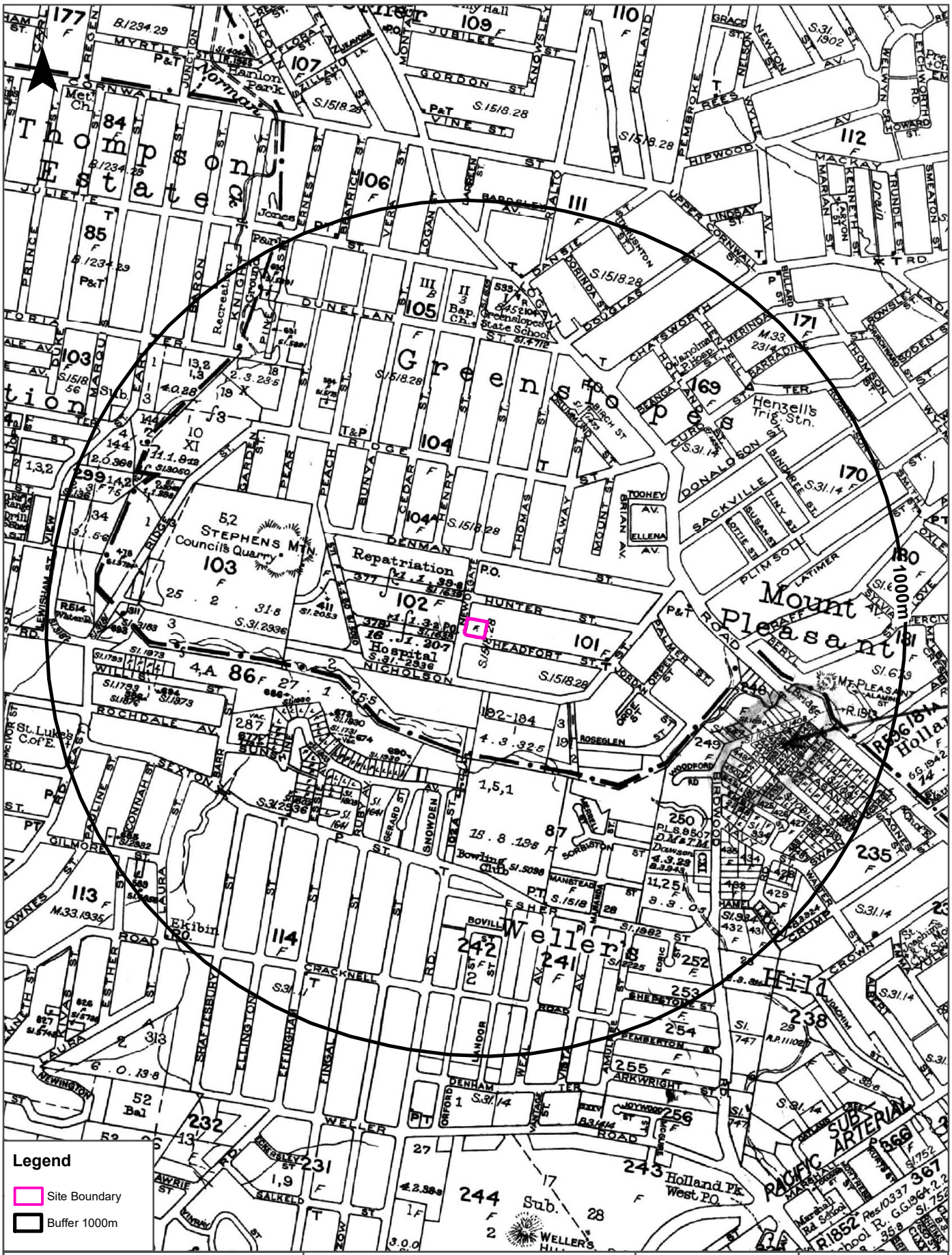
Data Sources: Sheet 4 of 4, City of Brisbane
Drawn and Published by the
Department of Mapping and Surveying, Brisbane

Coordinate System:
GDA 1994 MGA Zone 56

Date: 04 April 2024

# Historical Map 1970

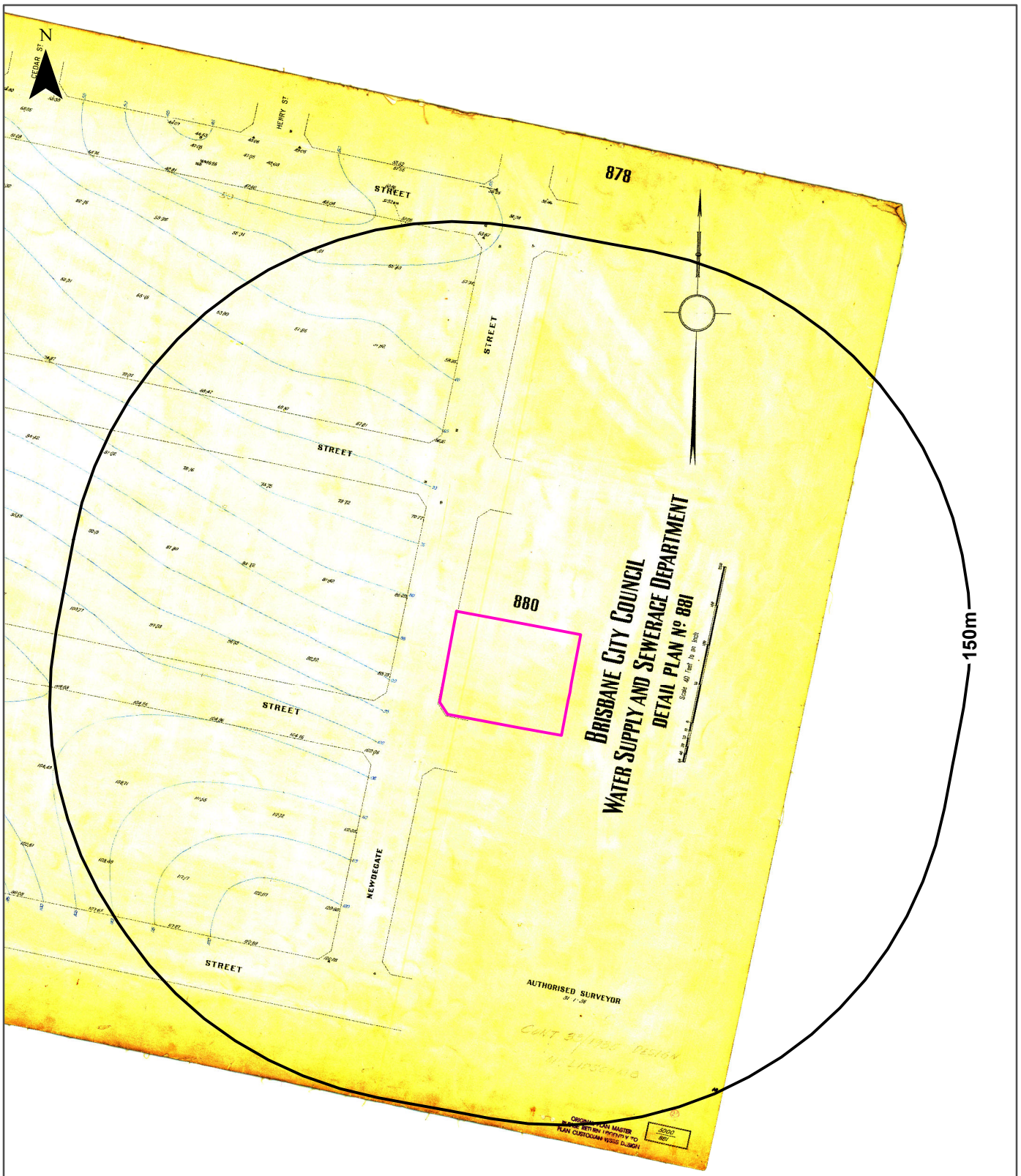
**51-55 Headfort Street, Greenslopes, QLD 4120**




| Scale: 0 200 400 Meters | Data Sources: Sheet 2519 Queensland Twenty Chain Series Drawn and Published at the Survey Office, Dept. of Public Lands, Brisbane Printed at the Govt. Printing Office | Coordinate System: GDA 1994 MGA Zone 56 | Date: 04 April 2024 |
|---|---|---|---|

# Historical Map c.1959

**51-55 Headfort Street, Greenslopes, QLD 4120**



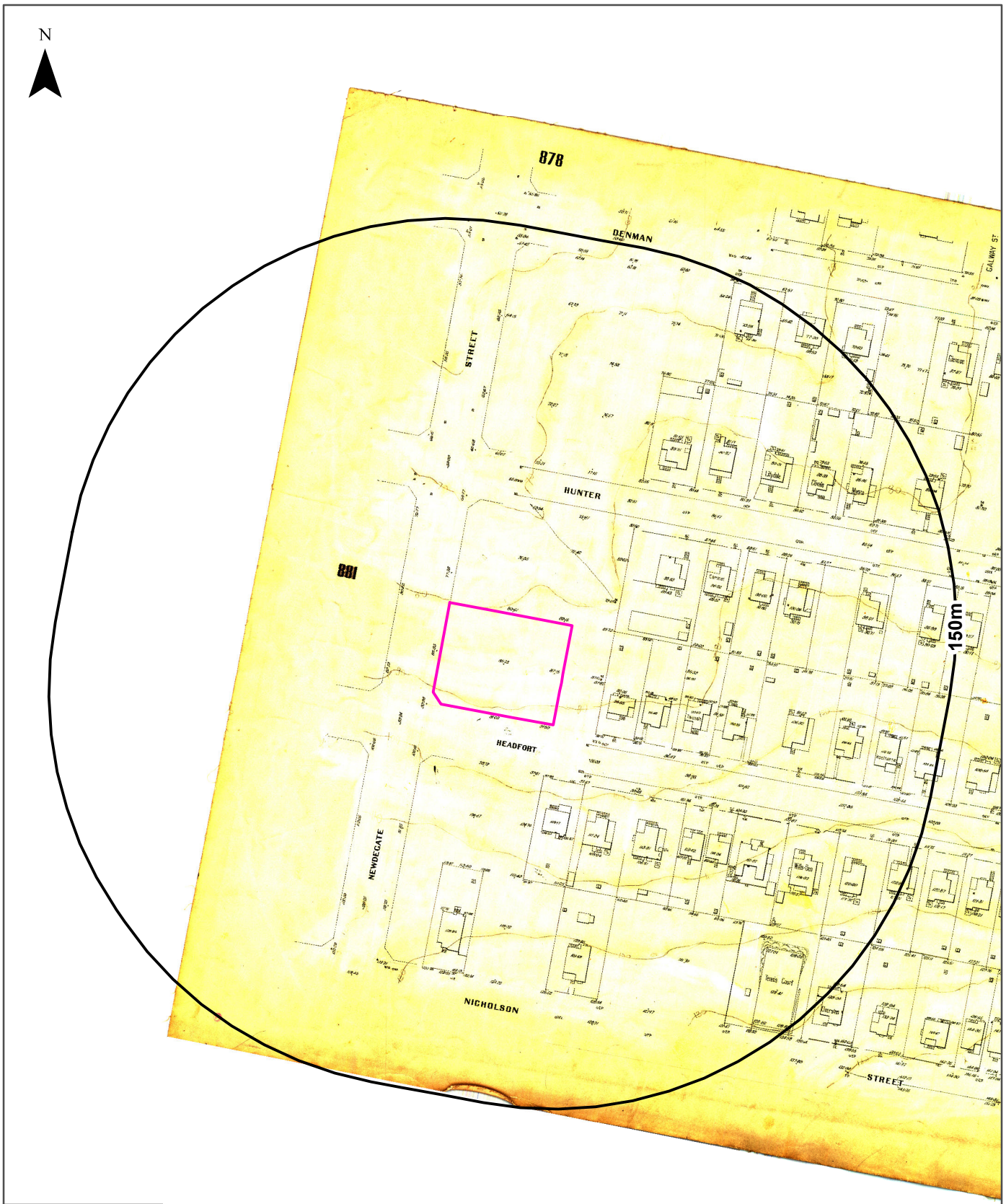

**Legend**

- Site Boundary
- Buffer 150m

| Scale: 0 – 55 Meters – 110 | Data Sources: Brisbane Detail Plans<br>Metropolitan Water and Sewerage Board, City of Brisbane<br>Supplied By Brisbane City Archives | Coordinate System:<br>GDA 1994 MGA Zone 56 | Date: 04 April 2024 |
|---|---|---|---|

# Historical Map c.1959

**51-55 Headfort Street, Greenslopes, QLD 4120**




**Legend**

- Site Boundary
- Buffer 150m

| Scale: | Data Sources: Brisbane Detail Plans<br>Metropolitan Water and Sewerage Board, City of Brisbane<br>Supplied By Brisbane City Archives | Coordinate System:<br>GDA 1994 MGA Zone 56 | Date: 04 April 2024 |
|---|---|---|---|
| 0 — 55 Meters — 110 | | | |

# Historical Map 1959

**51-55 Headfort Street, Greenslopes, QLD 4120**

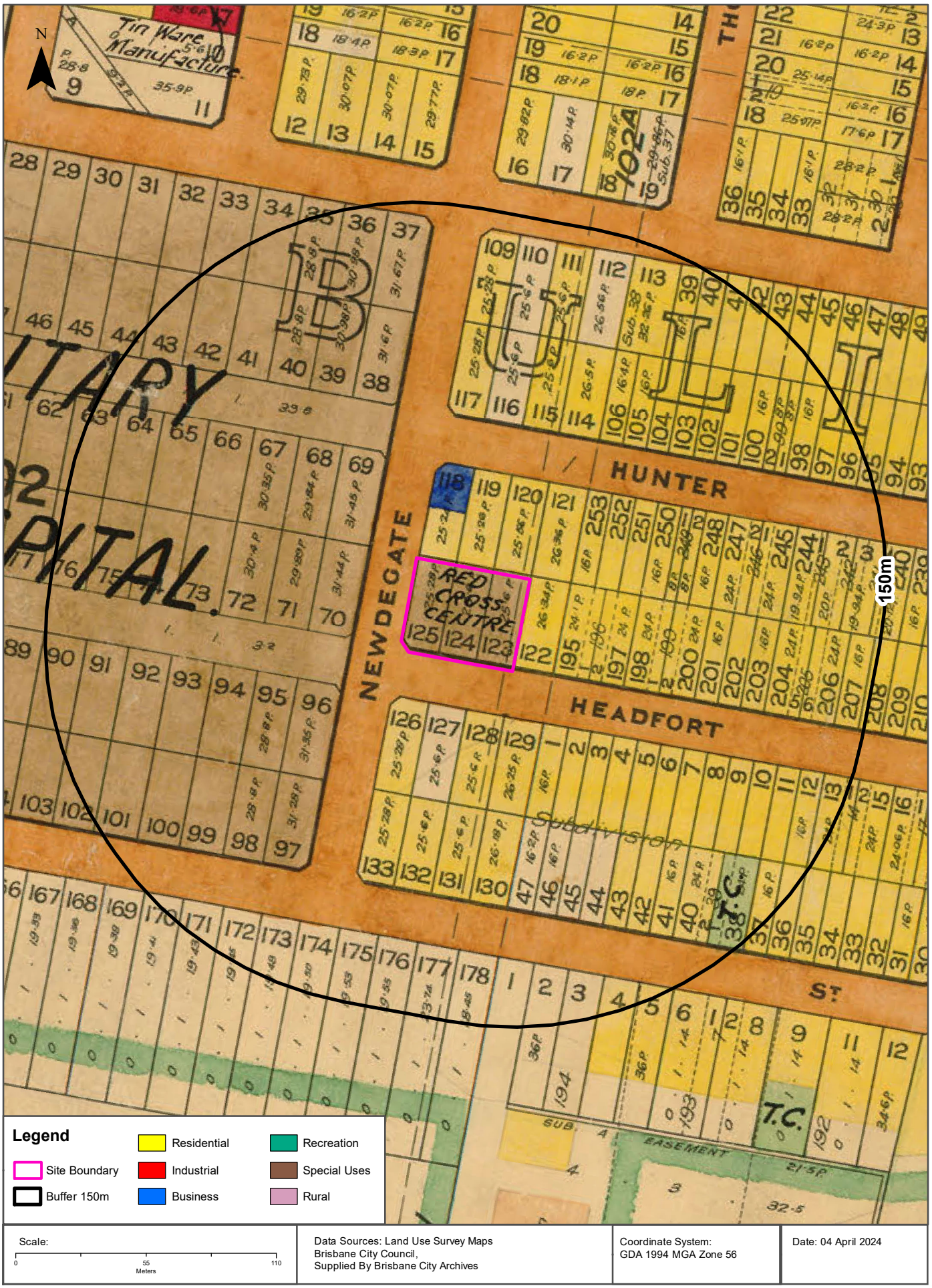
Data Sources: Sheet 2519 Queensland Twenty Chain Series Drawn and Published at the Survey Office, Dept. of Public Lands, Brisbane Printed at the Govt. Printing Office

Coordinate System: GDA 1994 MGA Zone 56

Date: 04 April 2024

# Historical Map 1948

**51-55 Headfort Street, Greenslopes, QLD 4120**




Scale: 0 55 110 Meters

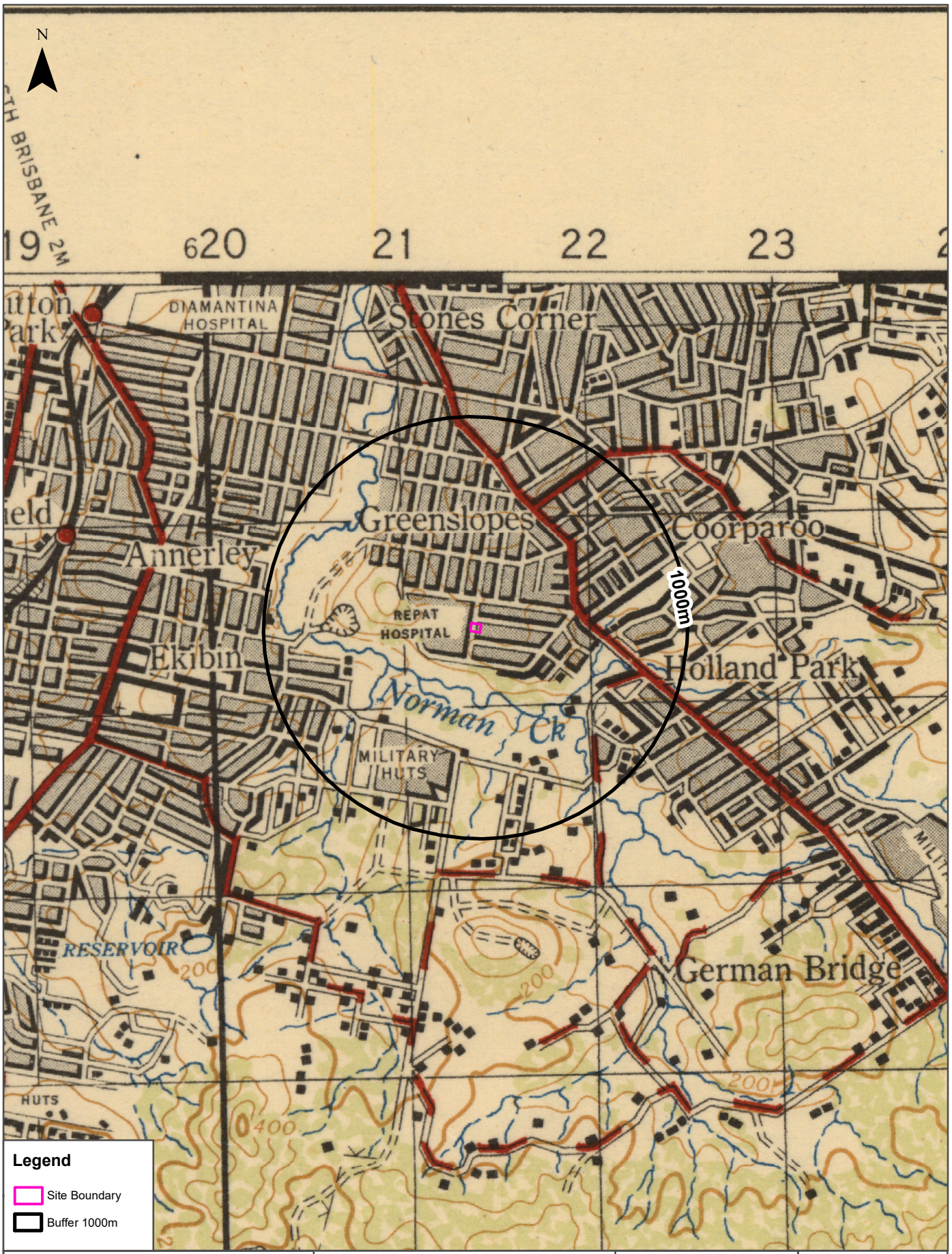
Data Sources: Land Use Survey Maps
Brisbane City Council,
Supplied By Brisbane City Archives

Coordinate System:
GDA 1994 MGA Zone 56

Date: 04 April 2024

# Historical Map c.1947

**51-55 Headfort Street, Greenslopes, QLD 4120**




Scale: 0 250 500 Meters 1,000

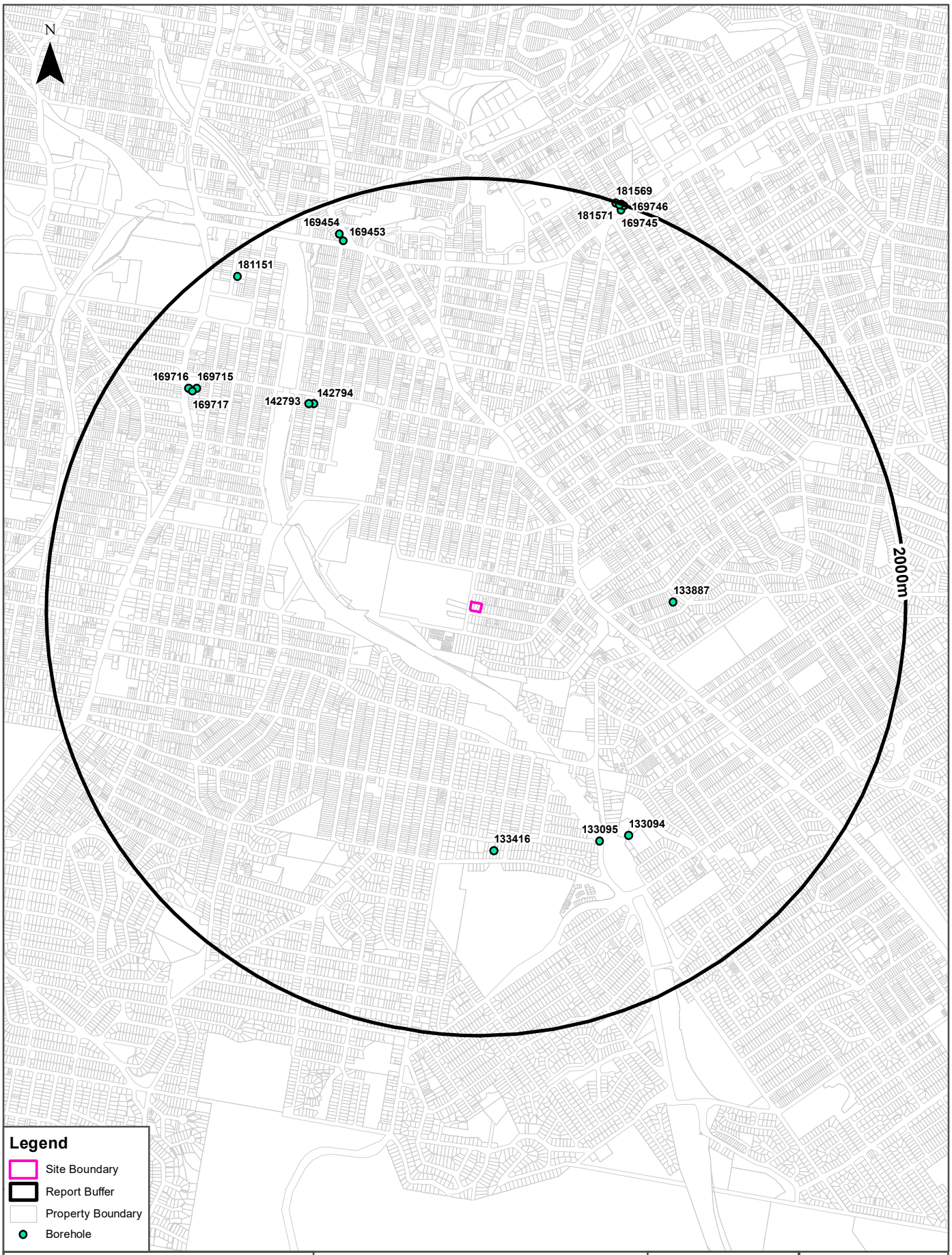
Data Sources: Australia 1:63360
Prepared by Commonwealth Section Imperial General Staff

Coordinate System:
GDA 1994 MGA Zone 56

Date: 04 April 2024

# Groundwater Boreholes

## 51-55 Headfort Street, Greenslopes, QLD 4120




Scale: 0 100 200 400 600 800 1,000 1,200 Meters

Data Sources: Property Boundaries & Topographic Data: © State of Queensland (Department of Natural Resources, Mines and Energy) 2024

Coordinate System: GDA 1994 MGA Zone 56

Date: 04April 2024

# Hydrogeology & Groundwater

**51-55 Headfort Street, Greenslopes, QLD 4120**

## Hydrogeology

Description of aquifers within the dataset buffer:

| Description | Distance | Direction |
|---|---|---|
| Fractured or fissured, extensive aquifers of low to moderate productivity | 0m | On-site |

Hydrogeology Map of Australia : Commonwealth of Australia (Geoscience Australia)
Creative Commons 4.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/4.0

## Groundwater Boreholes

Boreholes within the dataset buffer:

| Bore No | Facility Type | Facility Role | Status | Drillers Log | Aquifer | Drill Date | Dist | Direct' |
|---|---|---|---|---|---|---|---|---|
| 133887 | Sub-artesian Facility | Water Supply | Abandoned and Destroyed | 0.00m-0.30m TOPSOIL<br>0.30m-1.10m CLAY YELLOW<br>1.10m-2.40m ROCK PINKISH POWDERY<br>2.40m-3.00m YELLOW SCHIST POWDERY<br>3.00m-3.40m PINK POWDERY ROCK<br>3.40m-24.40m ROCK YELLOW & BROWN & GREY POWDERY<br>24.40m-26.80m GREY SANDSTONE<br>26.80m-27.40m FRACTURED GREY SANDSTONE<br>27.40m-39.60m GREY SANDSTONE<br>39.60m-51.20m GREY SHALE & SANDSTONE<br>51.20m-52.40m SOFTER GREY SHALE WET<br>52.40m-57.90m GREY SANDSTONE & SHALE<br>57.90m-65.50m BLACK SOFTER SHALE | | 2006-04-11 | 903m | East |
| 133416 | Sub-artesian Facility | Water Supply | Existing | 0.00m-4.00m RED CLAY<br>4.00m-18.00m YELLOW GRAVELLY CLAY<br>18.00m-28.00m BLUE METAL<br>28.00m-29.00m FRACTIURE WB<br>29.00m-42.00m BLUE METAL | Aquifer Top-Bottom: 28.00m-29.00m. Fractured Condition. Formation is contributing water to the bore. Formation does not flow. Quality: 390 Yield: 0.13 SWL: -19.00 | 2008-02-14 | 1129m | South |
| 142794 | Sub-artesian Facility | Sub-Artesian Monitoring | Existing | 0.00m-0.50m FILL<br>0.50m-1.50m ORANGE CLAY<br>1.50m-3.50m RED-ORANGE CLAY<br>3.50m-9.00m SANDY CLAY | | 2011-04-14 | 1194m | North West |
| 142793 | Sub-artesian Facility | Sub-Artesian Monitoring | Existing | 0.00m-0.70m FILL<br>0.70m-1.50m REDDY CLAY<br>1.50m-4.00m ORANGE CLAY<br>4.00m-12.00m SANDY CLAY | | 2011-04-13 | 1209m | North West |

| Bore No | Facility Type | Facility Role | Status | Drillers Log | Aquifer | Drill Date | Dist | Direct' |
|---|---|---|---|---|---|---|---|---|
| 133095 | Sub-artesian Facility | | Abandoned and Destroyed | 0.00m-2.00m BROWN SANDY CLAY<br>2.00m-4.00m BROWB PEBBLY CLAY<br>4.00m-5.00m GREY CLAY<br>5.00m-11.00m ORANGE AND WHITE PEBBLY CLAY<br>11.00m-18.00m WHITE SILTSTONE AND CLAY<br>18.00m-24.00m WHITE CLAYSTONE<br>24.00m-29.00m RED CLAYSTONES AND SCHIST<br>29.00m-35.00m GREEN AND RED SCHIST<br>35.00m-44.00m GREEN SHALEY SCHIST AND RED CLAY BANDS<br>44.00m-49.00m RED AND GREEN SCHIST<br>49.00m-56.00m DARK GREEN SCHIST<br>56.00m-64.00m GREEN SCHIST WITH RED CLAYSTONE INTRUSIONS<br>64.00m-73.00m LIGHT GREEN SCHIST<br>73.00m-82.00m GREEN AND RED SCHIST<br>82.00m-90.00m GREEN SCHIST<br>90.00m-98.00m WHITE QUARTZ CONGLOMERATES<br>98.00m-106.00m GREEN AND RED SCHISTS<br>106.00m-110.00m GREEN AND GREY SCHIST<br>110.00m-111.00m QUARTZ CONGLOMERATES<br>111.00m-114.00m DARK GREY GREYWACKE<br>114.00m-121.00m LIGHT GREY SCHIST WITH QUARTZ VEINS<br>121.00m-130.00m DARK GREEN SCHIST<br>130.00m-133.00m LIGHT BROWN AND GREEN SCHIST WITH QUARTZ STRINGERS<br>133.00m-140.00m DARK GREY SCHIST<br>140.00m-150.00m GREEN SCHIST | Aquifer Top-Bottom: 90.00m-98.00m. Semi Consolidated Condition. Formation is contributing water to the bore. Formation does not flow. Quality: 3700COND 8.52PH Yield: 3.00 SWL: -4.00 | 2007-02-13 | 1220m | South East |
| 133094 | Sub-artesian Facility | Sub-Artesian Monitoring | Abandoned and Destroyed | 0.00m-3.00m BROWN AND GREY PEBBLY CLAY<br>3.00m-5.00m WHITE CLAY AND WEATHERED SHALEY SCHIST<br>5.00m-12.00m BROWN CLAYS AND SCHIST<br>12.00m-25.00m DARK GREEN SCHIST WITH RED CLAYBANDS<br>25.00m-34.00m LIGHT GREEN SCHISTY CLAY WITH QUARTZ VEINS<br>34.00m-47.00m LIGHT GREY AND GREEN SCHIST AND QUARTZ VEINS<br>47.00m-71.00m DARK GREY AND GREEN SCHIST, COARSE GRAINED<br>71.00m-78.00m LIGHT GREY AND GREEN SCHIST FINE GRAINED AND QUARTZ STRINGERS<br>78.00m-87.00m DARK GREY AND GREEN SCHIST FINE GRAINED<br>87.00m-125.00m LIGHT GREY AND GREEN SCHIST AND QUARTZ STRINGERS<br>125.00m-147.00m DARK GREY AND GREEN SCHIST AND QUARTZ VEINS<br>147.00m-150.00m LIGHT GREY AND GREEN SCHIST FINE GRAINED | | 2007-02-08 | 1267m | South East |

| Bore No | Facility Type | Facility Role | Status | Drillers Log | Aquifer | Drill Date | Dist | Direct' |
|---|---|---|---|---|---|---|---|---|
| 169715 | Sub-artesian Facility | Sub-Artesian Monitoring | Existing | 0.00m-1.30m FILL<br>1.30m-8.50m SOFT CLAYS<br>8.50m-9.50m ROCKY SANDS WITH CLAY | Aquifer Top-Bottom: 8.50m-9.50m. Unconsolidated Condition. Formation is contributing water to the bore. Formation does not flow. | 2016-11-10 | 1640m | North West |
| 169717 | Sub-artesian Facility | Sub-Artesian Monitoring | Existing | 0.00m-1.50m FILL<br>1.50m-10.00m SOFT CLAYS<br>10.00m-12.00m ROCKY SANDY CLAYS | Aquifer Top-Bottom: 10.00m-12.00m. Unconsolidated Condition. Formation is contributing water to the bore. Formation does not flow. | 2016-11-10 | 1648m | North West |
| 169716 | Sub-artesian Facility | Sub-Artesian Monitoring | Existing | 0.00m-1.50m FILL<br>1.50m-10.00m SOFT CLAYS<br>10.00m-10.70m ROCKY SANDY CLAY | Aquifer Top-Bottom: 10.00m-10.70m. Unconsolidated Condition. Formation is contributing water to the bore. Formation does not flow. | 2016-11-10 | 1672m | North West |
| 169453 | Sub-artesian Facility | Sub-Artesian Monitoring | Existing | 0.00m-0.60m FINE TO COARSE BROWN DRYSANDY GRAVEL<br>0.60m-1.10m HIGH PLASTICITY DARK GREY DRY SILTY CLAY<br>1.10m-2.00m HIGH PLASTICITY PALE GREY MOIST SILTY CLAY<br>2.00m-2.80m HIGH PLASTICITY RED AND GREY MOIST SILTY CLAY<br>2.80m-3.00m HIGH PLASTICITY GREY DRY TO MOIST CLAY<br>3.00m-4.30m MEDIUM PLASTICITY RED AND GREY DRY TO MOIST SANDY CLAY<br>4.30m-5.30m MEDIUM PLASTICITY GREY DRY TO MOIST SANDY CLAY<br>5.30m-7.00m FINE TO MEDIUM GRAIN GREY WET SILTY SAND | Aquifer Top-Bottom: 5.25m-7.00m. Unconsolidated Condition. Formation is contributing water to the bore. Formation does not flow. SWL: -5.25 | 2015-12-07 | 1806m | North |
| 169454 | Sub-artesian Facility | Sub-Artesian Monitoring | Existing | 0.00m-0.30m COARSE GREY DRY SAND<br>0.30m-1.80m COARSE PALE BROWN DRY GRAVELLY SAND<br>1.80m-2.70m PALE BROWN DRY SILTY SAND<br>2.70m-3.00m MEDIUM PLASTICITY GREY DRY GRAVELLY SILTY CLAY<br>3.00m-3.50m MEDIUM PLASTICITY DARK BROWN MOIST GRAVELLY SILTY CLAY<br>3.50m-7.00m BROWN WET SILTY SAND | Aquifer Top-Bottom: 3.90m-7.00m. Unconsolidated Condition. Formation is contributing water to the bore. Formation does not flow. SWL: -3.90 | 2015-12-07 | 1843m | North |
| 181151 | Sub-artesian Facility | Sub-Artesian Monitoring | Existing | 0.00m-1.00m TOPSOIL & FILL<br>1.00m-4.00m SANDY YELLOW CLAYS<br>4.00m-10.00m STIFF GREY SILTY CLAY | | 2018-08-07 | 1890m | North West |
| 169745 | Sub-artesian Facility | Sub-Artesian Monitoring | Existing | 0.00m-0.90m DARK BROWN SANDY CLAY<br>0.90m-1.50m BROWN & GREY GRAVELLY SANDY CLAY<br>1.50m-2.20m GREY & BROWN SILTY CLAY<br>2.20m-4.00m GREY SILTY CLAY<br>4.00m-4.90m GREY GREYWACKE | | 2017-01-16 | 1971m | North |
| 181571 | Sub-artesian Facility | Sub-Artesian Monitoring | Existing | | | 2019-09-18 | 1991m | North |

| Bore No | Facility Type | Facility Role | Status | Drillers Log | Aquifer | Drill Date | Dist | Direct' |
|---|---|---|---|---|---|---|---|---|
| 169746 | Sub-artesian Facility | Sub-Artesian Monitoring | Existing | 0.00m-0.15m FILL, CONCRETE SLAB<br>0.15m-0.30m PALE GREY GRAVELLY SANDY CLAY<br>0.30m-1.30m ORANGE GRAVELLY SILTY CLAY<br>1.30m-1.70m PALE BROWN GRAVEKKY SANDY CLAY<br>1.70m-2.20m DARK GREY SILTY CLAY<br>2.20m-3.00m GREY WITH ORANGE SILTY SANDY CLAY<br>3.00m-3.70m GREY GREYWACKE | Aquifer Top-Bottom: 2.20m-3.00m. Unconsolidated Condition. Formation is contributing water to the bore. Formation does not flow. SWL: -2.00 | 2017-01-17 | 1993m | North |
| 181569 | Sub-artesian Facility | Sub-Artesian Monitoring | Existing | | | 2019-09-23 | 1995m | North |
| 181570 | Sub-artesian Facility | Sub-Artesian Monitoring | Existing | | | 2019-09-19 | 1998m | North |

Groundwater Borehole Data: © State of Queensland (Department of Natural Resources and Mines) [2016]
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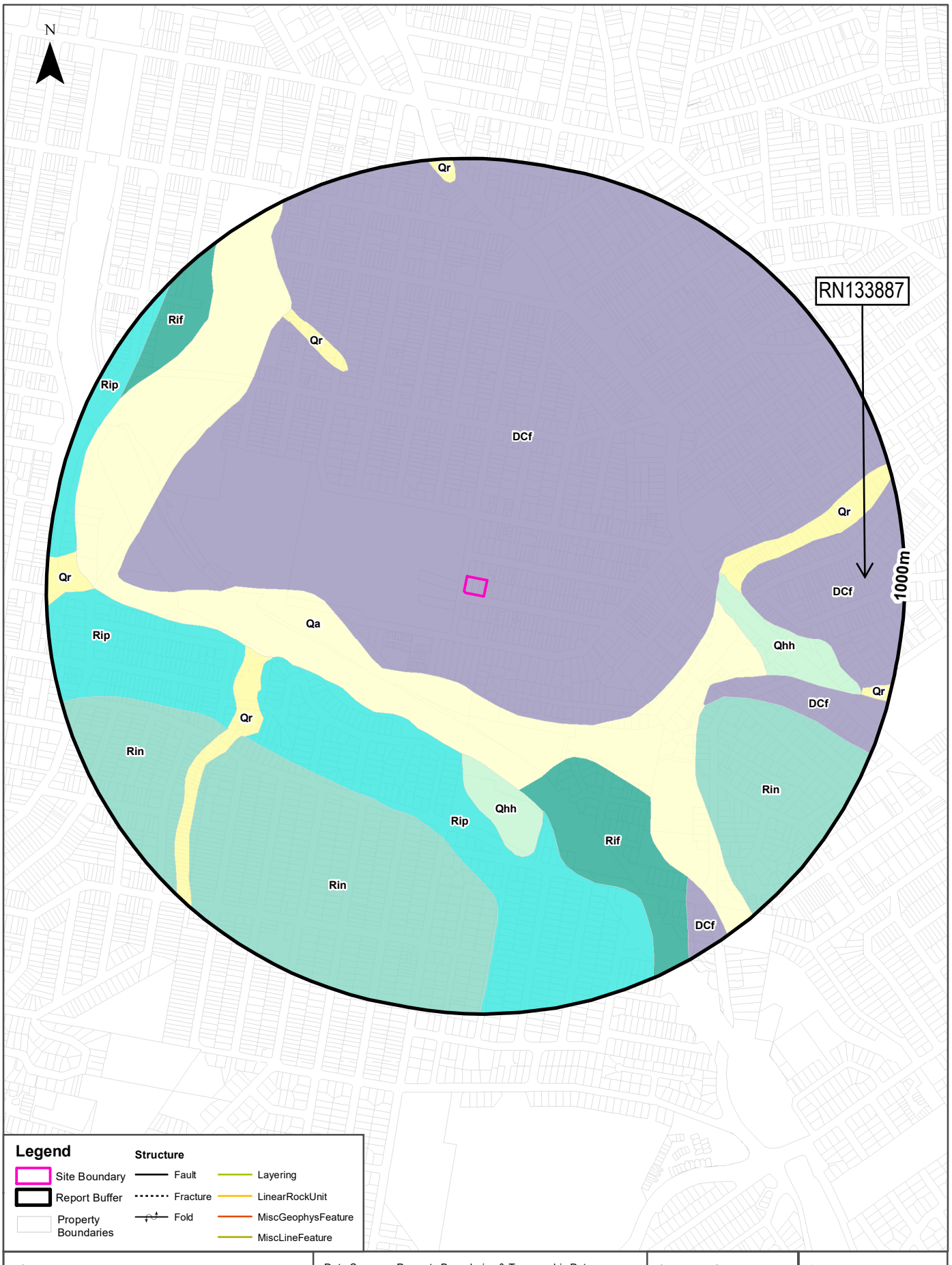
Acknowledgment: In consideration of the State permitting use of this data you acknowledge and agree that the State gives no warranty in relation to the data (including accuracy, reliability, completeness, currency or suitability) and accepts no liability (including without limitation, liability in negligence) for any loss, damage or costs (including consequential damage) relating to any use of the data. Data must not be used for direct marketing or be used in breach of the privacy laws.

Groundwater Borehole Metadata: https://www.dnrm.qld.gov.au/__data/assets/pdf_file/0015/31317/bore-baseline-assessment-dictionary.pdf

# Detailed Surface Geology

**51-55 Headfort Street, Greenslopes, QLD 4120**




Scale: 0 100 200 400 Meters

Data Sources: Property Boundaries & Topographic Data: © State of Queensland (Department of Natural Resources, Mines and Energy) 2024

Coordinate System: GDA 1994 MGA Zone 56

Date: 04 April 2024

# Geology

**51-55 Headfort Street, Greenslopes, QLD 4120**

## Detailed Surface Geological Units

What are the Geological Units onsite?

| Symbol | LithologySummary | Unit Name | Dominant Rock | Rock Type | Age |
|---|---|---|---|---|---|
| DCf | Mudstone, shale, arenite, chert, jasper, basic metavolcanics, pillow lava, conglomerate | Neranleigh-Fernvale beds | SEDIMENTARY ROCK | STRATIFIED UNIT (INCLUDING VOLCANIC AND METAMORPHIC) | DEVONIAN - CARBONIFEROUS |

What are the Geological Units within the dataset buffer?

| Symbol | Lithology Summary | Unit Name | Dominant Rock | Rock Type | Age |
|---|---|---|---|---|---|
| DCf | Mudstone, shale, arenite, chert, jasper, basic metavolcanics, pillow lava, conglomerate | Neranleigh-Fernvale beds | SEDIMENTARY ROCK | STRATIFIED UNIT (INCLUDING VOLCANIC AND METAMORPHIC) | DEVONIAN - CARBONIFEROUS |
| Qa | Clay, silt, sand and gravel; flood-plain alluvium | Qa-QLD | ALLUVIUM | STRATIFIED UNIT (INCLUDING VOLCANIC AND METAMORPHIC) | QUATERNARY |
| Qhh | Gravel, sand and silt; man-made deposits generally associated with land-fill or mining (tailings, dumps and rehabilitated areas) | Qhh-QLD | MAN-MADE DEPOSITS (TAILINGS, LAND-FILL, MINE DUMPS ETC) | STRATIFIED UNIT (INCLUDING VOLCANIC AND METAMORPHIC) | ANTHROPOCENE |
| Qr | Clay, silt, sand, gravel and soil; colluvial and residual deposits | Qr-QLD | COLLUVIUM | STRATIFIED UNIT (INCLUDING VOLCANIC AND METAMORPHIC) | QUATERNARY |
| Rif | Rhyolitic tuff, ignimbrite, agglomerate, conglomerate, sandstone, shale | Brisbane Tuff | FELSITES (LAVAS, CLASTICS & HIGH-LEVEL INTRUSIVES) | STRATIFIED UNIT (INCLUDING VOLCANIC AND METAMORPHIC) | LATE TRIASSIC |
| Rin | Siltstone, shale, thin coal seams | Tingalpa Formation | MUDROCK | STRATIFIED UNIT (INCLUDING VOLCANIC AND METAMORPHIC) | LATE TRIASSIC |
| Rip | Sandstone, conglomerate, minor shale | Aspley Formation | ARENITE-RUDITE | STRATIFIED UNIT (INCLUDING VOLCANIC AND METAMORPHIC) | LATE TRIASSIC |

## Detailed Geological Structures

What are the Geological Structures onsite?

| Feature | Name | Description | Source | Scale |
|---|---|---|---|---|
| - | No features onsite | | | |

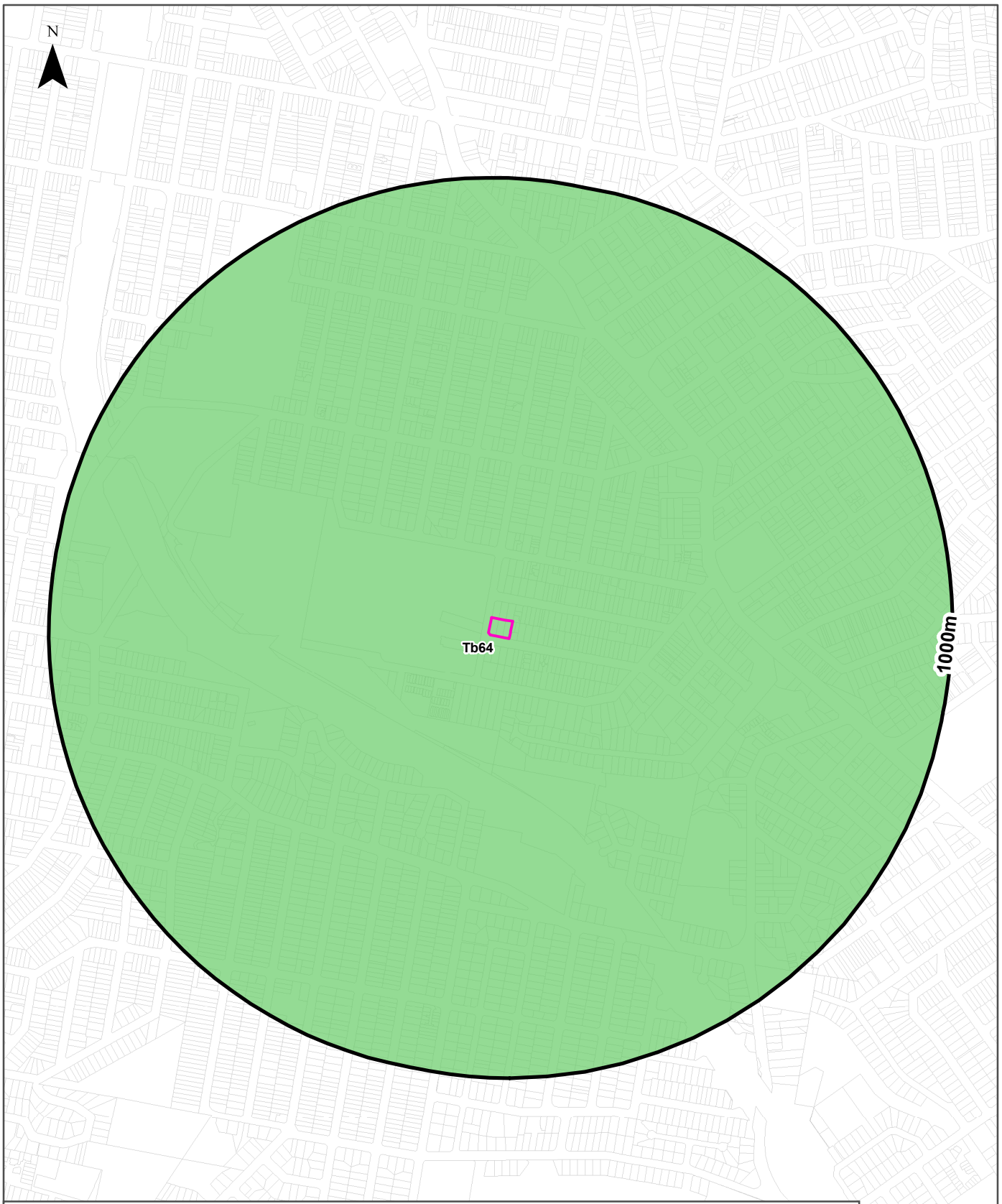
What are the Geological Structures within the dataset buffer?

| Feature | Name | Description | Source | Scale |
|---|---|---|---|---|
| - | No features in report buffer | | | |

Geological Data Source : Detailed Surface Geology & Detailed Geological Structures
© State of Queensland (Department of Natural Resources, Mines and Energy)

# Atlas of Australian Soils

## 51-55 Headfort Street, Greenslopes, QLD 4120




**Legend**

- Site Boundary
- Report Buffer
- Property Boundary

**Australian Soil Classification Orders**

| | | | | | |
|---|---|---|---|---|---|
| Anthroposol | Dermosol | Kandosol | Podosol | Tenosol | No Data |
| Calcarosol | Ferrosol | Kurosol | Rudosol | Vertosol | |
| Chromosol | Hydrosol | Organosol | Sodosol | Lake | |

Scale: 0 100 200 300 400 500 Meters

Data Sources: Property Boundaries & Topographic Data: © State of Queensland (Department of Natural Resources, Mines and Energy) 2024

Coordinate System: GDA 1994 MGA Zone 56

Date: 04 April 2024

# Soils

**51-55 Headfort Street, Greenslopes, QLD 4120**

## Atlas of Australian Soils

Australian soil types within the dataset buffer:

| Symbol | Soil Order | Map Unit Description | Distance |
|---|---|---|---|
| Tb64 | Tenosol | Rolling to hilly terrain with gentle to moderate slopes: chief soils are hard acidic yellow (Dy3.41) and red (Dr3.41) mottled soils. Associated are hard alkaline yellow (Dy3.43) and red (Dr3.43) mottled soils; sandy acidic yellow mottled soils (Dy5.41), (Dy5.31), and (Dy5.81) and leached sands (Uc2.2), all containing large amounts of nodular ironstone material, also with mottled clays, at depth, below the (Uc2) soils. As mapped, small areas of adjoining units are included. | 0m |

Atlas of Australian Soils: CSIRO
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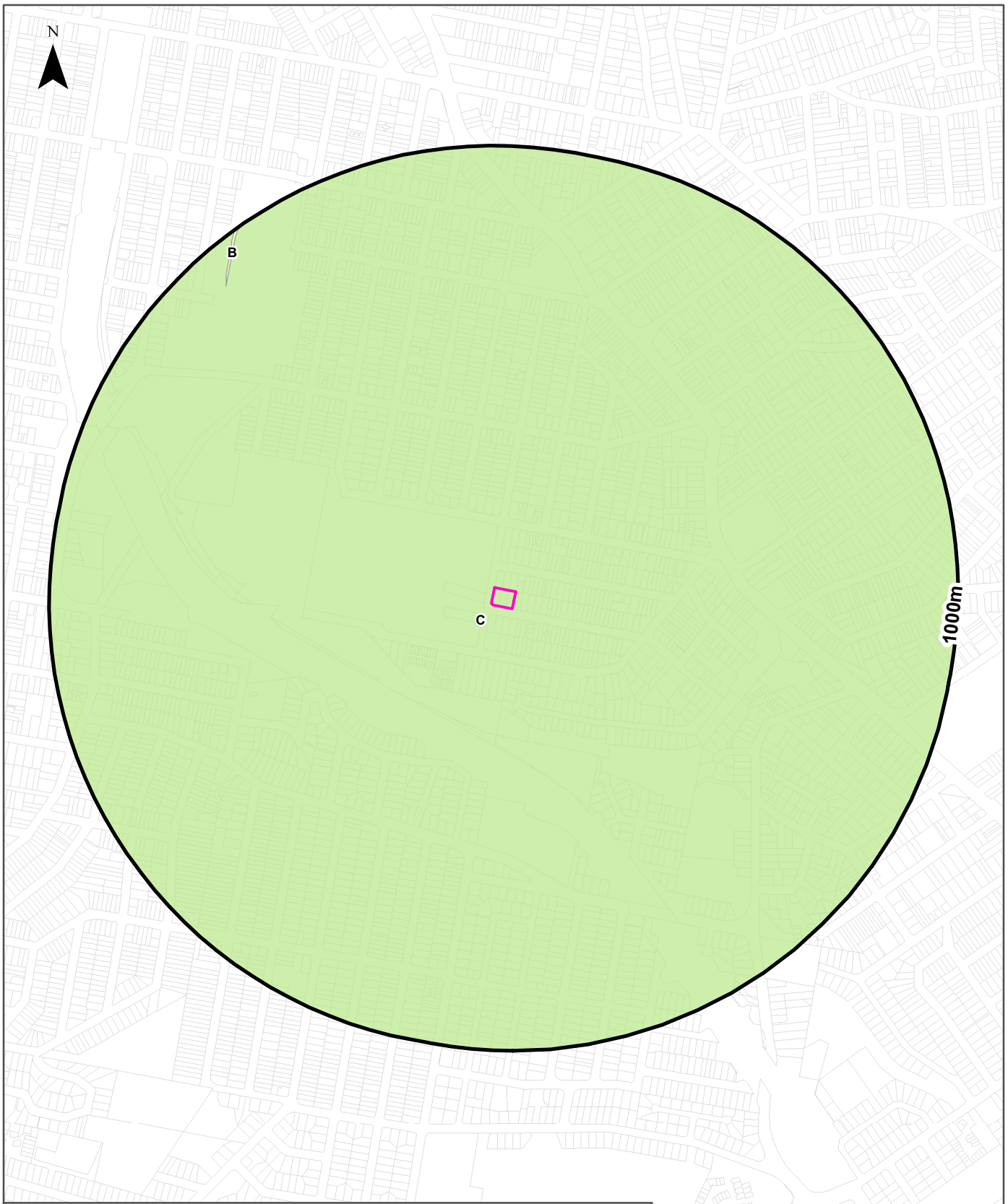
# Atlas of Australian Acid Sulfate Soils

**51-55 Headfort Street, Greenslopes, QLD 4120**




**Legend**

- Site Boundary
- Report Buffer
- Property Boundary

**Probability of occurrence of Acid Sulfate Soils**

- A. High (>70%)
- B. Low (6-70%)
- C. Extremely Low (1-5%)
- D. No Chance (0%)
- No Data

Scale: 0 100 200 300 400 500 Meters

Data Sources: Property Boundaries & Topographic Data: © State of Queensland (Department of Natural Resources, Mines and Energy) 2024

Coordinate System: GDA 1994 MGA Zone 56

Date: 04 April 2024

# Acid Sulfate Soils

**51-55 Headfort Street, Greenslopes, QLD 4120**

## Atlas of Australian Acid Sulfate Soils

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

| PROBCLASS | Description | Distance |
|---|---|---|
| C | Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas. | 0m |
| B | Low Probability of occurrence. 6-70% chance of occurrence. | 913m |

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO
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# Heritage

**51-55 Headfort Street, Greenslopes, QLD 4120**

## Commonwealth Heritage List

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

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

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

## National Heritage List

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

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

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

## Heritage Register Boundaries

Heritage Register Boundaries within the dataset buffer:

| Place ID | Name | Entry Date | Distance | Direction |
|---|---|---|---|---|
| N/A | No records within buffer | | | |

Heritage Register Boundaries Data: © State of Queensland (Department of Environment and Heritage Protection)
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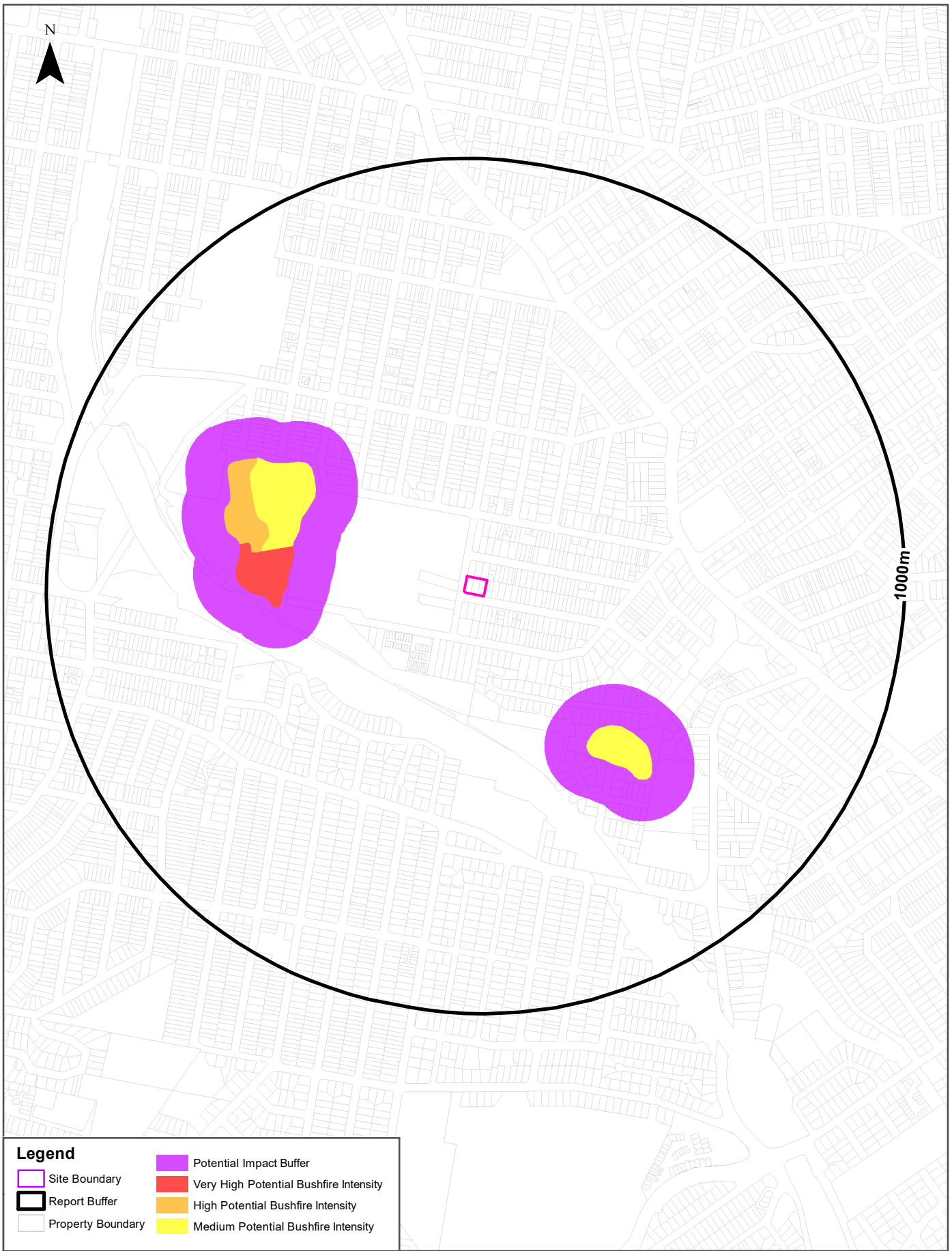
# Natural Hazards - Bushfire Prone Areas

**51-55 Headfort Street, Greenslopes, QLD 4120**




Scale: 0 100 200 400 Meters

Data Sources: Property Boundaries & Topographic Data: © State of Queensland (Department of Natural Resources, Mines and Energy) 2024

Coordinate System: GDA 1994 MGA Zone 56

Date: 04 April 2024

# Natural Hazards

**51-55 Headfort Street, Greenslopes, QLD 4120**

## Statewide Bushfire Prone Areas

Bushfire Prone Areas within the dataset buffer:

| Bushfire Prone Area Class | Version | Region | Distance | Direction |
|---|---|---|---|---|
| Potential Impact Buffer | July 2017 | South East Queensland | 309m | West |
| Medium Potential Bushfire Intensity | July 2017 | South East Queensland | 409m | North West |
| Very High Potential Bushfire Intensity | July 2017 | South East Queensland | 415m | West |
| High Potential Bushfire Intensity | July 2017 | South East Queensland | 483m | West |

Bushfire Prone Areas Data: © State of Queensland (Department of Natural Resources and Mines)
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# Natural Hazards

**51-55 Headfort Street, Greenslopes, QLD 4120**

## Queensland Floodplain Assessment Overlay

QFAO within the dataset buffer:

| Number | Name | Distance | Direction |
|---|---|---|---|
| N/A | No records within buffer | | |

Queensland Floodplain Assessment Overlay Data: © State of Queensland (Department of Natural Resources and Mines)
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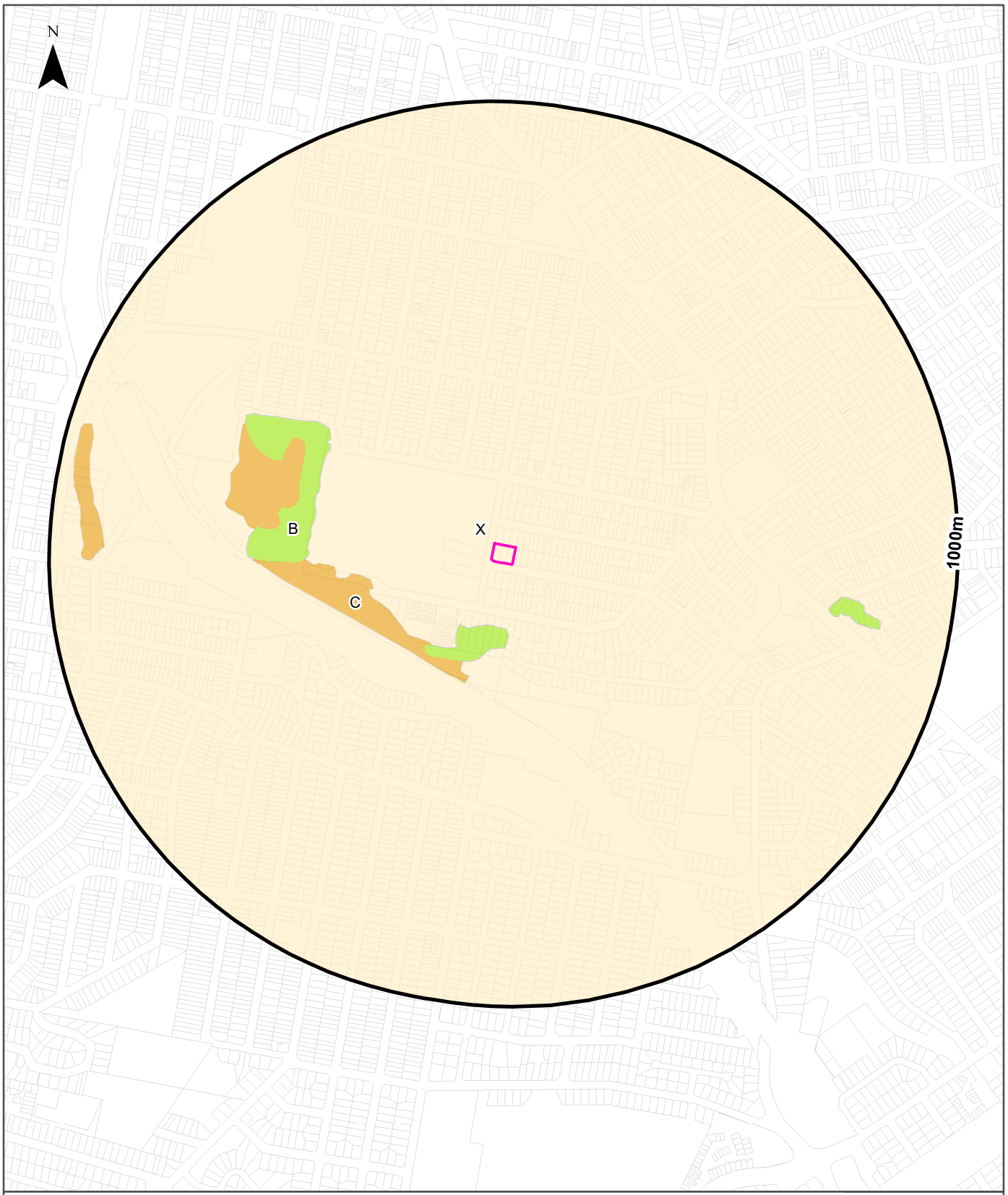
# Ecological Constraints - Regulated Vegetation

**51-55 Headfort Street, Greenslopes, QLD 4120**




**Legend**

| | | | |
|---|---|---|---|
| Site Boundary | Category A | Category R | Unknown |
| Report Buffer | Category B | Category X | |
| Property Boundaries | Category C | Water | |

Scale: 0 100 200 400 600 Metres

Data Sources: Property Boundaries & Topographic Data: © State of Queensland (Department of Natural Resources, Mines and Energy) 2024

Coordinate System: GDA 1994 MGA Zone 56

Date: 04 April 2024

# Ecological Constraints

**51-55 Headfort Street, Greenslopes, QLD 4120**

## Regulated Vegetation

Regulated Vegetation Areas within the dataset buffer:

| Regulated Vegetation Category | Category Description | Distance | Direction |
|---|---|---|---|
| Category X | Category X areas are all other areas that are not designated as a Category A, B, C or R areas. | 0m | On-site |
| Category B | Category B areas contain remnant native vegetation, or may contain an endangered regional ecosystem; an of concern regional ecosystem; or a least concern regional ecosystem if not covered by Category C. | 142m | South |
| Category C | Category C areas contain high-value regrowth vegetation. | 233m | West |
| Category B | Category B areas contain remnant native vegetation, or may contain an endangered regional ecosystem; an of concern regional ecosystem; or a least concern regional ecosystem if not covered by Category C. | 410m | West |
| Category C | Category C areas contain high-value regrowth vegetation. | 453m | West |
| Category B | Category B areas contain remnant native vegetation, or may contain an endangered regional ecosystem; an of concern regional ecosystem; or a least concern regional ecosystem if not covered by Category C. | 722m | East |
| Category C | Category C areas contain high-value regrowth vegetation. | 876m | West |
| Category C | Category C areas contain high-value regrowth vegetation. | 999m | East |

Regulated Vegetation Management Map Data Source: Queensland Government - Department of Resources
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# Ecological Constraints

**51-55 Headfort Street, Greenslopes, QLD 4120**

## Wetland Environmental Values

Wetland Environmental Value areas within the dataset buffer:
Note: Sites in the vicinity of a Great Barrier Reef (GBR) High Ecological Significance wetland may be subject to assessment under State Code 9 – GBR Wetland Protection Areas in the State Development Assessment Provisions.

| Ecological Significance | Aqua Score | Distance | Direction |
|---|---|---|---|
| No records within buffer | | | |

Wetland Environmental Values Data Source: Queensland Government– Department of Environment and Science
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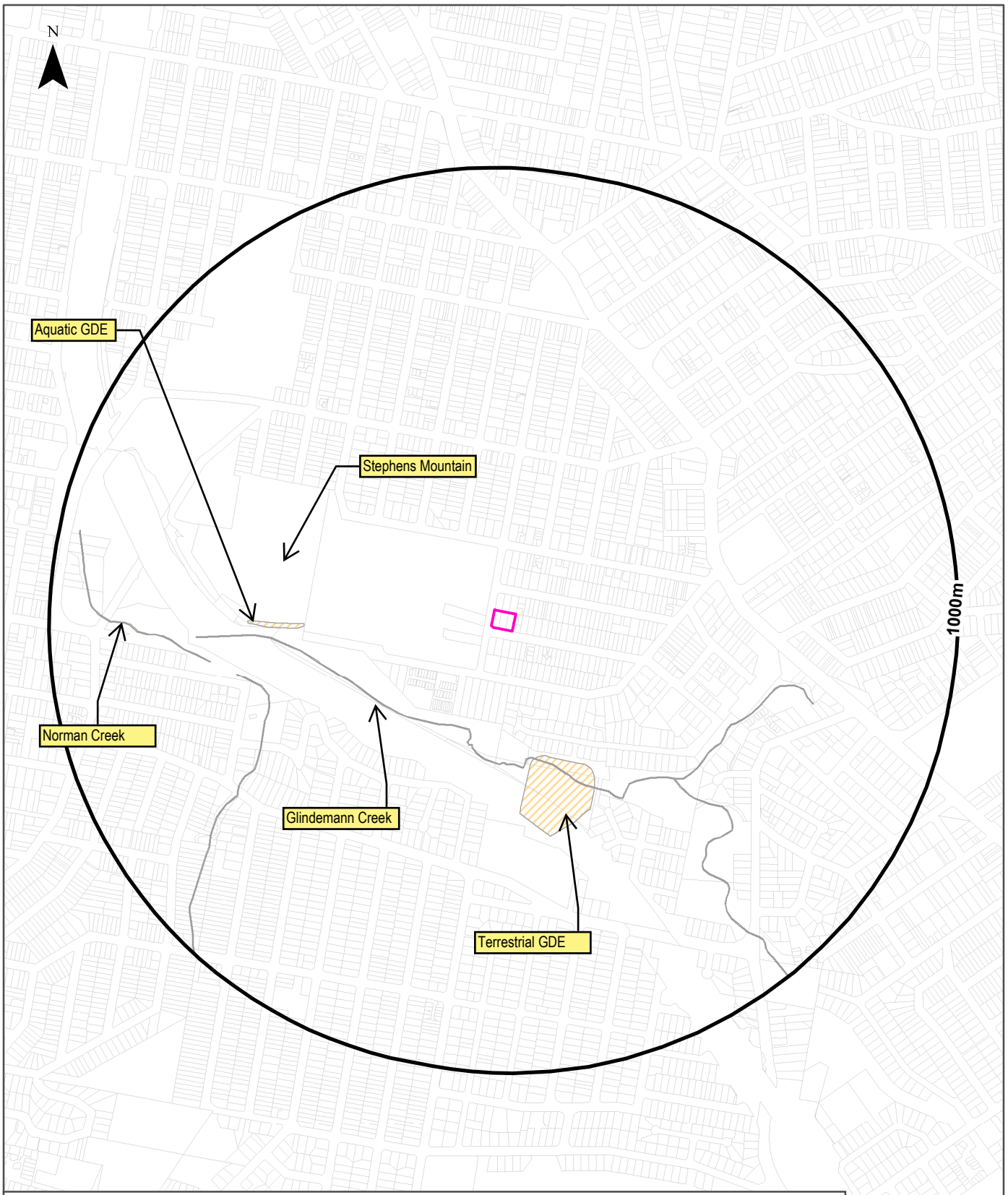
# Ecological Constraints - Groundwater Dependent Ecosystems Atlas

**51-55 Headfort Street, Greenslopes, QLD 4120**




**Legend**

- Site Boundary
- Report Buffer
- Property Boundaries
- High potential GDE - from national assessment
- High potential GDE - from regional studies
- Moderate potential GDE - from national assessment
- Moderate potential GDE - from regional studies
- Low potential GDE - from national assessment
- Low potential GDE - from regional studies
- Known GDE - from regional studies
- Unclassified potential GDE - from national assessment
- Unclassified potential GDE - from regional studies

Scale: 0 100 200 400 600 Metres

Data Sources: Property Boundaries & Topographic Data: © State of Queensland (Department of Natural Resources, Mines and Energy) 2024

Coordinate System: GDA 1994 MGA Zone 56

Date: 04 April 2024

# Ecological Constraints

**51-55 Headfort Street, Greenslopes, QLD 4120**

## Groundwater Dependent Ecosystems Atlas

GDEs within the dataset buffer:

| Type | GDE Potential | Geomorphology | Ecosystem Type | Aquifer Geology | Distance |
|---|---|---|---|---|---|
| Aquatic | Moderate potential GDE - from regional studies | Mountain ranges, rugged and dissected on granitic and metamorphic rocks in east, broader uplands and upland basins, partly on sedimentary rocks, in west. | Riverine wetland | Unconsolidated sedimentary | 234m |
| Terrestrial | Moderate potential GDE - from regional studies | Mountain ranges, rugged and dissected on granitic and metamorphic rocks in east, broader uplands and upland basins, partly on sedimentary rocks, in west. | Vegetation | Unconsolidated sedimentary | 423m |

Groundwater Dependent Ecosystems Atlas Data Source: The Bureau of Meteorology
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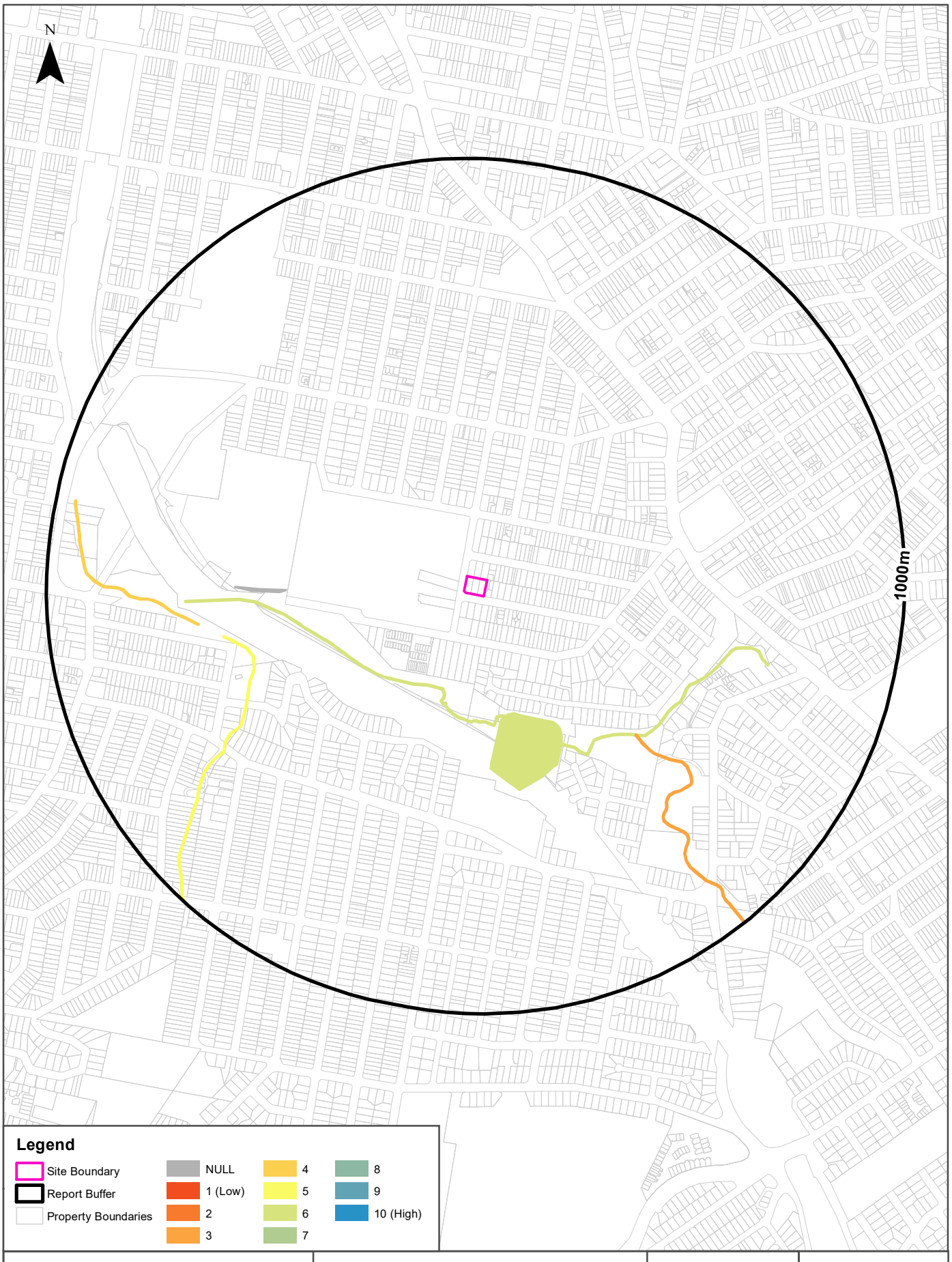
# Ecological Constraints - Inflow Dependent Ecosystems Likelihood

**51-55 Headfort Street, Greenslopes, QLD 4120**




Scale: 0 100 200 400 Meters

Data Sources: Property Boundaries & Topographic Data: © State of Queensland (Department of Natural Resources, Mines and Energy) 2024

Coordinate System: GDA 1994 MGA Zone 56

Date: 04 April 2024

# Ecological Constraints

**51-55 Headfort Street, Greenslopes, QLD 4120**

## Inflow Dependent Ecosystems Likelihood

IDEs within the dataset buffer:

| Type | IDE Likelihood | Geomorphology | Ecosystem Type | Aquifer Geology | Distance |
|---|---|---|---|---|---|
| Aquatic | 6 | Mountain ranges, rugged and dissected on granitic and metamorphic rocks in east, broader uplands and upland basins, partly on sedimentary rocks, in west. | Riverine wetland | Unconsolidated sedimentary | 234m |
| Terrestrial | | Mountain ranges, rugged and dissected on granitic and metamorphic rocks in east, broader uplands and upland basins, partly on sedimentary rocks, in west. | Vegetation | Unconsolidated sedimentary | 423m |
| Aquatic | 3 | Mountain ranges, rugged and dissected on granitic and metamorphic rocks in east, broader uplands and upland basins, partly on sedimentary rocks, in west. | Riverine wetland | Unconsolidated sedimentary | 491m |
| Aquatic | 5 | Mountain ranges, rugged and dissected on granitic and metamorphic rocks in east, broader uplands and upland basins, partly on sedimentary rocks, in west. | Riverine wetland | Unconsolidated sedimentary | 527m |
| Aquatic | 4 | Mountain ranges, rugged and dissected on granitic and metamorphic rocks in east, broader uplands and upland basins, partly on sedimentary rocks, in west. | Riverine wetland | Unconsolidated sedimentary | 640m |

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology
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# Location Confidences

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

| LC Code | Location Confidence |
|---|---|
| Premise match | Georeferenced to the site location / premise or part of site |
| General area or suburb match | Georeferenced with the confidence of the general/approximate area |
| Road match | Georeferenced to the road or rail |
| Road intersection | Georeferenced to the road intersection |
| Feature is a buffered point | Feature is a buffered point |
| Land adjacent to geocoded site | Land adjacent to Georeferenced Site |
| Network of features | Georeferenced to a network of features |

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## K.3 DESI RESPONSE

# RE: Department of Veteran Affairs - Greenslopes [Filed 20 Mar 2024 13:33]

EMR CLR Registry <EMR.CLR.Registry@des.qld.gov.au>

Tue 19/03/2024 8:32 PM

To:Wicks, Jeremy <Jeremy.Wicks@tetratech.com>
Cc:EMR CLR Registry <EMR.CLR.Registry@des.qld.gov.au>

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

Hi Jeremy,

Yes, the report we have on file is *Department of Veterans Affairs, Phase 2 Contaminated Land Assessment. 114 Newdegate Street, Greenslopes QLD. Prepared by Coffey Environments Australia Pty Ltd. 4 November 2013. Project Ref: ENAUBRIS09222AA.*

Kind regards

Queensland Government

**Jackie Elia**

Customer Service Officer - Registry

**Waste and Enforcement Services | Contaminated Land Assessment**

Department of Environment, Science and Innovation

GPO Box 2454, Brisbane QLD 4001

---

**From:** Wicks, Jeremy <Jeremy.Wicks@tetratech.com>
**Sent:** Wednesday, March 20, 2024 1:08 PM
**To:** EMR CLR Registry
**Subject:** RE: Department of Veteran Affairs - Greenslopes

Hi Jackie

Thank you for the prompt response. With the available records at hand are you able to confirm that the title of the report held on file is the following?

Coffey (2013) *Department of Veteran Affairs Phase 2 Contaminated Land Assessment, 114 Newdegate Street, Greenslopes, Queensland.*

Please note that 'Coffey' is now trading as Tetra Tech Coffey. Tetra Tech Coffey is already in possession of the aforementioned report.

Best regards

**Jeremy Wicks** | Queensland Practice Leader Site Assessment and Remediation
Direct **+61 7 3239 9357** | Business **+61 7 3239 9300** | Mobile **+61 435 956 733** | jeremy.wicks@tetratech.com

**Tetra Tech Coffey** | *Leading with Science®*
Level 5, 120 Edward St | Brisbane City QLD 4000 | tetratech.com | tetratechcoffey.com

**WE HAVE MOVED. Tetra Tech Brisbane's office is now located at Level 5, 120 Edward St, Brisbane City QLD 4000.**

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**From:** EMR CLR Registry <EMR.CLR.Registry@des.qld.gov.au>
**Sent:** Wednesday, March 20, 2024 11:27 AM
**To:** Wicks, Jeremy <Jeremy.Wicks@tetratech.com>
**Cc:** EMR CLR Registry <EMR.CLR.Registry@des.qld.gov.au>
**Subject:** RE: Department of Veteran Affairs - Greenslopes

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Good morning Jeremy,

I can confirm the original notification was from the Owner – Department of Veteran Affairs on 23/12/2015 and Lots 123-125 RP46047 were listed on the EMR for *Hazardous contaminant - Elevated concentrations of organochlorine pesticides (DDD/DDT/DDE and Aldrin/Dieldrin) identified on site above the nominated investigation levels* and entered on the register on 29/01/2016. A report provided Department of Veterans Affairs Phase 2 Contaminated Land Assessment was provided which is held on file.

To release further information or documentation you can action a Right to Information(https://www.rti.qld.gov.au/). We can't guarantee the quality and/or quantity of historical information stored.

Land is listed on the EMR if certain types of activities (known as notifiable activities) **have been**, or **are being**, carried out on the land, or if the land is contaminated land. Contaminated land is land which is affected by a hazardous contaminant.

When land is listed on the EMR for a notifiable activity, it is an indication that the land is likely to be contaminated but it does not mean it needs to be cleaned up or is not suitable for its current land use. This will depend on the nature, extent and risks of any contamination on the land, which can be determined by engaging a suitably qualified person to carry out a site investigation.

Kind regards

Queensland Government

**Jackie Elia**

Customer Service Officer - Registry

**Waste and Enforcement Services | Contaminated Land Assessment**

Department of Environment, Science and Innovation

GPO Box 2454, Brisbane QLD 4001

---

**From:** Wicks, Jeremy <Jeremy.Wicks@tetratech.com>
**Sent:** Wednesday, March 20, 2024 10:44 AM
**To:** EMR CLR Registry

**Subject:** Department of Veteran Affairs - Greenslopes
**Importance:** High

Hi

Tetra Tech Coffey is working on behalf of the Department of Veteran Affairs and is in the process of preparing a CLID/Validation Report for the following properties which are listed on the EMR. Can you please confirm when the properties were listed on the EMR and what contaminated land records (e.g. site investigation reports) DES holds on these properties. If the information is available it would be very helpful if DES can provide a reference for the report held. A record of the EMR search is attached.

| Item | Detail | | |
|---|---|---|---|
| Lot/Plan Number | Lot 123 on RP46047 | Lot 124 on RP46047 | Lot 125 on RP46047 |
| EMR Site ID | 148512 | 148513 | 148514 |

Best regards

**Jeremy Wicks** | Queensland Practice Leader Site Assessment and Remediation
Direct **+61 7 3239 9357** | Business **+61 7 3239 9300** | Mobile **+61 435 956 733** | jeremy.wicks@tetratech.com

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TETRA TECH COFFEY

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## K.4 BCC RIGHT FOR INFORMATION RESPONSE

Brisbane City Council ABN 72 002 765 795

Office of the Chief Executive
Level 23 Brisbane Square
266 George Street Brisbane Qld 4000
GPO Box 1434 Brisbane Qld 4001
T 07 3403 6786 F 07 3334 0043
www.brisbane.qld.gov.au

*Dedicated to a better Brisbane*

Our Reference: RTI/IP Appl 2013/14-15
Your Reference:

30 July 2013

Mr Matthew Chenery
Coffey Environments Australia Pty Ltd
Level 2
12 Creek Street
**BRISBANE QLD 4000**

Dear Mr Chenery

**Application for access to documents concerning Lots 123-125 on RP46047 (51, 53 and 55 Headfort Street, Greenslopes)**

I refer to your Right to Information application 2013/14-15, received by Council on 17 July 2013, seeking access to information relating to dangerous goods, hazardous material and environmental licences for Lots 123, 124 and 125 on SP46047 at Greenslopes.

Following an investigation of your application, I have been unable to identify any documents specifically relevant to your application.

Accordingly, I, as the Officer directed by this Authority to deal with your application on its behalf pursuant to Section 30 of the *Right to Information Act 2009* (RTI Act), have decided that no documents exist within the scope of your application.

I have, however, identified 6 pages of information pertaining to the site history of these allotments which may be of some use to you and these are enclosed.

As the time taken to process your application did not exceed 5 hours, no processing charges will apply in this instance.

If you are unhappy with my decision, you are entitled to seek an internal review and/or an external review in accordance with the RTI Act. Your application for either internal or external review must be in writing. A copy of the relevant sections from the RTI Act is enclosed for your information, as is a copy of the Office of the Information Commissioner's fact sheet on review rights.

Yours sincerely

David Simons
**Right to Information & Information Privacy Officer**

Address | Common Name | Lot Plan | Portion | Subdivision | UPRN | VG | RIMS Account | Name | More Searches | Help

# Applications / Site History

L.123/RP.46047 R.123 S.2 P.102/102A PAR BULIMBA

No Child Properties | No Parent Properties

**Official Location** 51 HEADFORT ST GREENSLOPES QLD 4120

## DART APPLICATIONS

| Application Ref | Application Type | Shop/Unit | Recd Date | Status Date | Status | Old Appln No | Purpose |
|---|---|---|---|---|---|---|---|
| A001531660 | Prelodgement (DA) | | 23-DEC-2004 | 07-MAR-2005 | Refused | 910888:DA | |
| A000944813 | Request for Assessment by DRS | | 22-JUN-2005 | | Current | 1305775:BLDG | Application |
| A000107023 | Scrutiny Compliance Permit, Commercial | | 01-JAN-1999 | 22-MAR-1995 | Current | 453712:PLBG | |
| | Compliance Certificate, Commercial | | 01-JAN-1999 | 21-NOV-1995 | Current | 453712:PLBG | |
| A000107022 | New Approval, Domestic | | 01-JAN-1999 | | Assessment | 453711:PLBG | |
| A000107021 | New Approval, Domestic | | 01-JAN-1999 | 01-JAN-1999 | Current | 453710:PLBG | |
| | Compliance Certificate, Domestic | | 01-JAN-1999 | 20-JAN-1997 | Current | 453710:PLBG | |

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Address | Common Name | Lot Plan | Portion | Subdivision | UPRN | VG | RIMS Account | Name | More Searches | Help

# Applications / Site History

L.124/RP.46047 R.124 S.2 P.102/102A PAR BULIMBA

No Child Properties | No Parent Properties

**Official Location** 53 HEADFORT ST GREENSLOPES QLD 4120

## DART APPLICATIONS

| Application Ref | Application Type | Shop/Unit | Recd Date | Status Date | Status | Old Appln No | Purpose |
|---|---|---|---|---|---|---|---|
| A001531660 | Prelodgement (DA) | | 23-DEC-2004 | 07-MAR-2005 | Refused | 910888:DA | |
| A000107023 | Scrutiny Compliance Permit, Commercial | | 01-JAN-1999 | 22-MAR-1995 | Current | 453712:PLBG | |
| | Compliance Certificate, Commercial | | 01-JAN-1999 | 21-NOV-1995 | Current | 453712:PLBG | |
| A000107022 | New Approval, Domestic | | 01-JAN-1999 | | Assessment | 453711:PLBG | |
| A000107021 | New Approval, Domestic | | 01-JAN-1999 | 01-JAN-1999 | Current | 453710:PLBG | |
| | Compliance Certificate, Domestic | | 01-JAN-1999 | 20-JAN-1997 | Current | 453710:PLBG | |

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# Applications / Site History

L.125/RP.46047 R.125 S.2 P.102/102A PAR BULIMBA

No Child Properties No Parent Properties

**Official Location** 55 HEADFORT ST GREENSLOPES QLD 4120
**Alternate Address** 112 NEWDEGATE ST GREENSLOPES QLD 4120

## DART APPLICATIONS

| Application Ref | Application Type | Shop/Unit | Recd Date | Status Date | Status | Old Appln No | Purpose |
|---|---|---|---|---|---|---|---|
| A001531660 | Prelodgement (DA) | | 23-DEC-2004 | 07-MAR-2005 | Refused | 910888:DA | |
| A000945422 | Request for Assessment by DRS | | 29-JUN-2005 | | Current | 1306487:BLDG | Application |
| A000944813 | Request for Assessment by DRS | | 22-JUN-2005 | | Current | 1305775:BLDG | Application |
| A000107023 | Scrutiny Compliance Permit, Commercial | | 01-JAN-1999 | 22-MAR-1995 | Current | 453712:PLBG | |
| | Compliance Certificate, Commercial | | 01-JAN-1999 | 21-NOV-1995 | Current | 453712:PLBG | |
| A000107022 | New Approval, Domestic | | 01-JAN-1999 | | Assessment | 453711:PLBG | |
| A000107021 | New Approval, Domestic | | 01-JAN-1999 | 01-JAN-1999 | Current | 453710:PLBG | |
| | Compliance Certificate, Domestic | | 01-JAN-1999 | 20-JAN-1997 | Current | 453710:PLBG | |

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# Location Details

Location Name: 51 HEADFORT ST GREENSLOPES QLD 4120 (RP46047/L123 RP46047/L125)
Location Type: DART Lot Configuration
Status: Active
Water Body:
Owner Name: Red Cross Society

**Address**
Shop/Flat/Unit No.:
House No - Suffix: 51
Street(Name Type Ext): HEADFORT Street
Suburb: GREENSLOPES
State: QLD P/Code: 4120
N Contaminated Land
N Sensitive Location

## Description

## Frontages

| Address | Address Usage |
|---|---|
| 112 NEWDEGATE ST GREENSLOPES QLD 4120 | Wide Frontage |
| 51 HEADFORT ST GREENSLOPES QLD 4120 | Postal |
| 55 HEADFORT ST GREENSLOPES QLD 4120 | Narrow Frontage |
| 55 HEADFORT ST GREENSLOPES QLD 4120 | Postal |

## Lot Plan

| Lot | Plan Type | Plan | Parish |
|---|---|---|---|
| 123 | Registered Plan | 46047 | RP46047/L123 |
| 125 | Registered Plan | 46047 | RP46047/L125 |

## Coordinates

| Coordinate Type | Easting/Latitude | Northing/Longitude |
|---|---|---|

## Application

| Project Ref | Project Name | Application Date | Decision Level |
|---|---|---|---|
| 1305775:BLDG | CONVERSION/REQUEST FOR ASSESSMENT BY DRS/BIDS Ref: 1305775 | 22-JUN-2005 | |

## Permit Activity

| Lot Plan | Permit Type | Permit Status | Permit Ref | Effective Date |
|---|---|---|---|---|
| L123/RP46047 | Request for Assessment by DRS | Current | BD10087550407 | |
| L125/RP46047 | Request for Assessment by DRS | Current | BD10087550407 | |

## Compliance Action

| Ref | Date | Status | Type | Project Manager | Con |
|---|---|---|---|---|---|

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# Location Details

Location Name: 55 HEADFORT ST GREENSLOPES QLD 4120
Location Type: Holding
Status: Active
Water Body:
Owner Name: Australian Red Cross Society

**Address**

Shop/Flat/Unit No.:
House No - Suffix: 55
Street(Name Type Ext): HEADFORT Street
Suburb: GREENSLOPES
State: QLD P/Code: 4120
N Contaminated Land
N Sensitive Location

## Description

## Frontages

| Address | Address Usage |
|---|---|
| 112 NEWDEGATE ST GREENSLOPES QLD 4120 | Wide Frontage |
| 114 NEWDEGATE ST GREENSLOPES QLD 4120 | Narrow Frontage |
| 51 HEADFORT ST GREENSLOPES QLD 4120 | Postal |
| 53 HEADFORT ST GREENSLOPES QLD 4120 | Postal |
| 55 HEADFORT ST GREENSLOPES QLD 4120 | Narrow Frontage |
| 55 HEADFORT ST GREENSLOPES QLD 4120 | Postal |
| 55 HEADFORT ST GREENSLOPES QLD 4120 | Valuation |
| 55 HEADFORT ST GREENSLOPES QLD 4120 | Wide Frontage |

## Lot Plan

| Lot | Plan Type | Plan | Parish |
|---|---|---|---|
| 123 | Registered Plan | 46047 | RP46047/L123 |
| 124 | Registered Plan | 46047 | RP46047/L124 |
| 125 | Registered Plan | 46047 | RP46047/L125 |

## Coordinates

| Coordinate Type | Easting/Latitude | Northing/Longitude |
|---|---|---|

## Application

| Project Ref | Project Name | Application Date | Decision Level |
|---|---|---|---|
| 453710:PLBG | CONVERSION/SEWERAGE NETWORK HOUSE CONNECT/BIDS Ref: 453710/OLD Ref: 29300\000 | 01-JAN-1999 | |
| 453711:PLBG | CONVERSION/SEWERAGE NETWORK HOUSE CONNECT/BIDS Ref: 453711/OLD Ref: 29300\000 | 01-JAN-1999 | |
| 453712:PLBG | CONVERSION/SEWERAGE NETWORK HOUSE CONNECT/BIDS Ref: 453712/OLD Ref: 29300\000 | 01-JAN-1999 | |
| 910888:DA | CONVERSION/PRELODGEMENT/BIDS Ref: 910888 | 23-DEC-2004 | |

## Permit Activity

| Lot Plan | Permit Type | Permit Status | Permit Ref | Effective Date |
|---|---|---|---|---|
| L123/RP46047 | Compliance Certificate, Commercial | Current | CP06015921205 | 21-NOV-1995 |
| L123/RP46047 | Compliance Certificate, Domestic | Current | DP04015920905 | 20-JAN-1997 |
| L123/RP46047 | New Approval, Domestic | Assessment | DP01015921005 | |
| L123/RP46047 | New Approval, Domestic | Current | DP01015920805 | 01-JAN-1999 |
| L123/RP46047 | Prelodgement (DA) | Refused | PL01155633507 | 07-MAR-2005 |
| L123/RP46047 | Scrutiny Compliance Permit, Commercial | Current | CP01015921105 | 22-MAR-1995 |
| L124/RP46047 | Compliance Certificate, Commercial | Current | CP06015921205 | 21-NOV-1995 |
| L124/RP46047 | Compliance Certificate, Domestic | Current | DP04015920905 | 20-JAN-1997 |
| L124/RP46047 | New Approval, Domestic | Assessment | DP01015921005 | |
| L124/RP46047 | New Approval, Domestic | Current | DP01015920805 | 01-JAN-1999 |
| L124/RP46047 | Prelodgement (DA) | Refused | PL01155633507 | 07-MAR-2005 |
| L124/RP46047 | Scrutiny Compliance Permit, Commercial | Current | CP01015921105 | 22-MAR-1995 |
| L125/RP46047 | Compliance Certificate, Commercial | Current | CP06015921205 | 21-NOV-1995 |
| L125/RP46047 | Compliance Certificate, Domestic | Current | DP04015920905 | 20-JAN-1997 |
| L125/RP46047 | New Approval, Domestic | Assessment | DP01015921005 | |

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# Location Details

| Lot Plan | Permit Type | Permit Status | Permit Ref | |
|---|---|---|---|---|
| L125/RP46047 | New Approval, Domestic | Current | DP01015920805 | 01-JAN-1999 |
| L125/RP46047 | Prelodgement (DA) | Refused | PL01155633507 | 07-MAR-2005 |
| L125/RP46047 | Scrutiny Compliance Permit, Commercial | Current | CP01015921105 | 22-MAR-1995 |

## Compliance Action

| Ref | Date | Status | Type | Project Manager | Con |
|---|---|---|---|---|---|
| C1195168 | 25-AUG-2011 | Finalised | Illegal Parking | | N |
| C734404 | 15-OCT-2009 | Finalised | Illegal Parking | MARCZYK, Ben | N |
| C480851 | 12-AUG-2008 | Finalised | Illegal Activities | HERBERT, Noel | N |
| C211466 | 24-APR-2007 | Finalised | Illegal Parking | KIRKHAM, Trevor | N |
| INV51873 | 30-OCT-2006 | Closed | Legislation Audit | KINGSFORD, Robert | N |

## K.5 PREVIOUS INVESTIGATION LITHOLOGY

## Summary of Lithology from Previous Investigations

| Location ID | Sampled Date | Maximum Depth Investigated at Location (m bgs) | Lithology Interval (m bgs) | Lithology Interval Description in Site Investigation Report | Anthropogenic Materials Encountered in Lithology Invertval in Site Investigation Report |
|---|---|---|---|---|---|
| SS01 | 16/07/2013 | 0.10 | 0 - 0.1 | Clayey SILT, brown, moist | ACM (cement sheeting) |
| SS02 | 16/07/2013 | 0.10 | 0 - 0.1 | Silty Sand, organic matter, brown, moist | ACM (cement sheeting) |
| SS03 | 16/07/2013 | 0.10 | 0 - 0.1 | Clayey sandy SILT, brown, dry | ACM (cement sheeting) |
| SS04 | 16/07/2013 | 0.10 | 0 - 0.1 | Sandy CLAY, organic matter, brown, moist | Compost (vegetation) |
| SA01/A01 | 2/09/2013 | 0.36 | 0 - 0.3 | Sandy Clayey GRAVEL, brown, dry | One piece of ACM |
| | | | 0.3-0.36 | Sandy CLAY | None |
| SA02/A02 | 2/09/2013 | 0.30 | 0 - 0.15 | Sandy Clayey GRAVEL brown, dry, angular gravel, well graded | None |
| | | | 0.15 - 0.3 | Sandy CLAY: brown, dry | |
| SA03/A03 | 2/09/2013 | 0.40 | 0 - 0.12 | Sandy Clayey GRAVEL, brown, dry, angular gravel | None |
| | | | 0.12 - 0.4 | Sandy CLAY,brown, some angular gravel, dry, stiff, dense clay | |
| SA04/A04 | 2/09/2013 | 0.35 | 0 - 0.35 | Sandy GRAVEL, brown, dry, fine grained sand, angular to rounded gravel | Slag, Brick. ACM detected on surface |
| SA05/A05 | 2/09/2013 | 0.42 | 0 - 0.42 | FILL, Gravelly Silty SAND, organic matter, angular to rounded gravel | Slag |
| SA06/A06 | 2/09/2013 | 0.42 | 0.0 - 0.42 | FILL Sandy Silty Gravel, brown, dry, gravel, well graded | Slag |
| | | | | | Slag, ACM detected. |
| SA07/A07 | 2/09/2013 | 0.37 | 0.0 - 0.37 | Sandy Clayey SILT, brown, some gravel, fine grained sand | None |
| SA08/A08 | 2/09/2013 | 0.35 | 0.0 - 0.3 | FILL, Sandy Gravelly Clayey SILT, brown, slightly moist. | Slag, Concrete, Wood |
| | | | 0.3 - 0.05 | Silty CLAY, low to medium plasticity, brown, natural, moist, firm | None |
| SA09/A09 | 2/09/2013 | 0.40 | 0.0 - 0.25 | Sandy Silty CLAY, medium to high plasticity, brown, slightly moist | None |
| | | | 0.25 - 0.4 | Silty CLAY, high plasticity, light brown, moist, firm to stiff, natural. | |
| SA10/A10 | 2/09/2013 | 0.26 | 0.0 - 0.26 | FILL Silty Gravelly SAND, gravel angular of shale | Slag, organic matter, ACM detected. |
| | | | | | Slag, organic matter, 2 x pieces asbestos cement, sheet/pipe 4.5cm x 3cm/2.5cm x 2.5cm loose fibres |
| | | | | | Slag, organic matter, ACM detected. |
| SA11/A11 | 2/09/2013 | 0.10 | 0.1 | FILL Silty Gravelly SAND | None |
| SA13/A13 | 2/09/2013 | 0.10 | 0.1 | Clayey Sandy SILT. | None |
| HA01 | 2/09/2013 | 0.35 | 0.0 - 0.2 | Silty SAND, brown, dry, loose, some gravel, angular. | None |
| | | | 0.2 - 0.3 | Silty GRAVEL, brown, dry, loose, angular. | |

## Summary of Lithology from Previous Investigations

| Location ID | Sampled Date | Maximum Depth Investigated at Location (m bgs) | Lithology Interval (m bgs) | Lithology Interval Description in Site Investigation Report | Anthropogenic Materials Encountered in Lithology Invertval in Site Investigation Report |
|---|---|---|---|---|---|
| HA02 | 2/09/2013 | 0.10 | 0.0 - 0.1 | Silty SAND, brown, medium density, dry, some angular gravel | None |
| HA03 | 2/09/2013 | 0.10 | 0.0 - 0.1 | Silty SAND, brown, dry, dense, some angular gravel. | None |
| HA04 | 2/09/2013 | 0.10 | 0.0 - 0.1 | Silty SAND, brown, some gravel, dry, angular | None |
| HA05 | 2/09/2013 | 0.50 | 0.0 - 0.3 | Gravelly SILT, brown, dry, angular gravel, some fine grained sand | None |
| | | | 0.3 - 0.5 | Silty SAND, brown, firm, dry, trace angular gravel, soft. | |
| HA06/SA11 | 2/09/2013 | 0.10 | 0.0 - 0.1 | FILL, Silty Gravelly SAND. | None |
| HA07/SA12 | 2/09/2013 | 0.10 | 0.0 - 0.1 | Clayey Sandy SILT, trace gravel. | None |
| HA08/SA13 | 2/09/2013 | 0.10 | 0.0 - 0.1 | Clayey Sandy SILT. | None |
| HA09 | 2/09/2013 | 0.47 | 0.0 - 0.4 | Silty SAND: brown, dry, loose, soft | garden bed with organic matter |
| | | | 0.4 - 0.47 | Silty CLAY, high plasticity, brown, stiff, dense, slightly moist. | None |
| HA10 | 2/09/2013 | 0.35 | 0.0 - 0.35 | Sandy Gravelly SILT, gravel of shale | garden bed, organic material, Slag, Coal |
| HA11 (SS02) | 2/09/2013 | 0.10 | Refer to description of location SS02 | | |
| 1 | 1/10/2019 | 0.30 | 0-0.3 | Silty CLAY with some gravel, grass, roots, wood pieces, dry leaves | None |
| 2 | 1/10/2019 | 0.30 | 0-0.3 | Silty CLAY with some gravel, grass, roots, wood pieces, dry leaves | None |
| 3 | 1/10/2019 | 0.35 | 0-0.3 | Silty CLAY with some gravel, grass, roots, wood pieces, dry leaves | None |
| | | | 0.3-0.35 | CLAY | |
| **4** | 1/10/2019 | 0.35 | 0-0.3 | Silty CLAY with some gravel, grass, roots, wood pieces, dry leaves | Beneath buildings waste material encountered included cans, bottles, broken gass and bricks |
| | | | 0.3-0.35 | CLAY | None |
| **5** | 1/10/2019 | 0.35 | 0-0.3 | Silty CLAY with some gravel, grass, roots, wood pieces, dry leaves | Beneath buildings waste material encountered included cans, bottles, broken gass and bricks |
| | | | 0.35 | CLAY | None |
| 6 | 1/10/2019 | 0.45 | 0-0.45 | Gravelly slag | Slag |
| 6P (HA02) | 1/10/2019 | 0.30 | 0-0.3 | Silty CLAY with some gravel, grass, roots, wood pieces, dry leaves | None |

## Summary of Lithology from Previous Investigations

| Location ID | Sampled Date | Maximum Depth Investigated at Location (m bgs) | Lithology Interval (m bgs) | Lithology Interval Description in Site Investigation Report | Anthropogenic Materials Encountered in Lithology Invertval in Site Investigation Report |
|---|---|---|---|---|---|
| 7 | 1/10/2019 | 0.45 | 0-0.45 | Gravelly slag | Slag |
| 7P (HA03) | 1/10/2019 | 0.25 | 0-0.25 | Silty CLAY with some gravel, grass, roots, wood pieces, dry leaves | None |
| | | | | | None |
| 8 | 1/10/2019 | 0.42 | 0-0.3 | Silty CLAY with some gravel, grass, roots, wood pieces, dry leaves | None |
| | | | 0.3-0.42 | CLAY | None |
| 9 | 1/10/2019 | 0.42 | 0-0.3 | Silty CLAY with some gravel, grass, roots, wood pieces, dry leaves | None |
| | | | 0.3-0.42 | CLAY | None |
| 9P (HA09) | 1/10/2019 | 0.45 | 0-0.3 | Silty CLAY with some gravel, grass, roots, wood pieces, dry leaves | None |
| | | | 0.3-0.45 | CLAY | None |
| 10 | 1/10/2019 | 0.45 | 0-0.3 | Silty CLAY with some gravel, grass, roots, wood pieces, dry leaves | ACM (cement sheeting) |
| | | | 0.3-0.45 | CLAY | None |
| 11 | 1/10/2019 | 0.45 | 0-0.3 | Silty CLAY with some gravel, grass, roots, wood pieces, dry leaves | None |
| | | | 0.3-0.45 | CLAY | None |
| **12** | 1/10/2019 | 0.25 | 0-0.25 | Silty CLAY with some gravel, grass, roots, wood pieces, dry leaves | Beneath buildings waste material encountered included cans, bottles, broken gass and bricks |
| | | | | | None |
| 13P (HA07) | 1/10/2019 | 0.20 | 0-0.2 | Silty CLAY with some gravel, grass, roots, wood pieces, dry leaves | None |
| | | | | | None |
| 14 | 1/10/2019 | 0.45 | 0-0.3 | Silty CLAY with some gravel, grass, roots, wood pieces, dry leaves | None |
| | | | 0.3-0.45 | CLAY | None |
| 14P (HA10) | 1/10/2019 | 0.42 | 0-0.3 | Silty CLAY with some gravel, grass, roots, wood pieces, dry leaves | None |
| | | | 0.3-0.42 | CLAY | None |
| 15 | 1/10/2019 | 0.10 | 0-0.1 | Silty CLAY with some gravel, grass, roots, wood pieces, dry leaves | None |
| 16 | 1/10/2019 | 0.45 | 0-0.3 | Silty CLAY with some gravel, grass, roots, wood pieces, dry leaves | None |
| | | | 0.3-0.45 | CLAY | None |
| **17** | 1/10/2019 | 0.25 | 0-0.25 | Silty CLAY with some gravel, grass, roots, wood pieces, dry leaves | Beneath buildings waste material encountered included cans, bottles, broken gass and bricks |

## Summary of Lithology from Previous Investigations

| Location ID | Sampled Date | Maximum Depth Investigated at Location (m bgs) | Lithology Interval (m bgs) | Lithology Interval Description in Site Investigation Report | Anthropogenic Materials Encountered in Lithology Invertval in Site Investigation Report |
|---|---|---|---|---|---|
| **17** | 1/10/2019 | 0.20 | 0-0.20 | Silty CLAY with some gravel, grass, roots, wood pieces, dry leaves | None |
| **18** | 1/10/2019 | 0.20 | 0-0.2 | Silty CLAY with some gravel, grass, roots, wood pieces, dry leaves | Beneath buildings waste material encountered included cans, bottles, broken gass and bricks |
| | | | | | None |
| **32** | 1/10/2019 | 0.10 | 0-0.1 | Silty CLAY with some gravel, grass, roots, wood pieces, dry leaves | Beneath buildings waste material encountered included cans, bottles, broken gass and bricks |
| 34 | 1/10/2019 | 0.10 | 0-0.1 | Silty CLAY with some gravel, grass, roots, wood pieces, dry leaves | None |
| 36 | 1/10/2019 | 0.10 | 0-0.1 | Silty CLAY with some gravel, grass, roots, wood pieces, dry leaves | None |
| BH01 | 3/09/2021 | 0.60 | 0-0.1 | CONCRETE | Concrete |
| | | | 0.1-0.6 | Silty CLAY | None |
| BH02 | 3/09/2021 | 0.10 | 0.1 | CONCRETE | Concrete |
| | 3/09/2021 | 0.10 | 0.1 | FILL: Gravelly Silty CLAY: poorly graded, grey /brown. | None |
| BH03 | 3/09/2021 | 0.10 | 0.1 | CONCRETE | Concrete |
| | 3/09/2021 | 0.10 | 0.1 | FILL: Gravelly Silty CLAY: poorly graded, grey /brown. | None |
| BH04 | 3/09/2021 | 0.10 | 0.1 | CONCRETE | Concrete |
| | 3/09/2021 | 0.10 | 0.1 | FILL: Gravelly Silty CLAY: poorly graded, grey /brown. | None |
| | 3/09/2021 | 0.10 | 0.1 | FILL: Gravelly Silty CLAY: poorly graded, grey /brown. | |
| BH05 | 3/09/2021 | 0.10 | 0.1 | CONCRETE | Concrete |
| | 3/09/2021 | 0.10 | 0.1 | FILL: Gravelly Silty CLAY: poorly graded, grey /brown. | None |
| BH06 | 3/09/2021 | 0.10 | 0.1 | CONCRETE | Concrete |
| | 3/09/2021 | 0.10 | 0.3 | FILL: Gravelly Silty CLAY: poorly graded, grey /brown. | Ash, slag fragments |
| | 3/09/2021 | 0.10 | 0.5 | FILL: Gravelly Silty CLAY: poorly graded, grey /brown. | None |
| BH07 | 3/09/2021 | 0.10 | 0.1 | CONCRETE | Concrete |
| | 2/09/2021 | 0.10 | 0.3 | FILL: Gravelly Silty CLAY: poorly graded, grey /brown. | None |
| | 3/09/2021 | 0.10 | 0.3 | Silty clay natural | None |
| BH08 | 3/09/2021 | 0.10 | 0.3 | CONCRETE | Concrete |
| | 3/09/2021 | 0.10 | 0.5 | graded, low plasticity, grey/brown. | None |
| BH09 | 3/09/2021 | 0.10 | 0.1 | Concrete | Concrete slab sample - used jackhammer to get chunk of pavement. Slab was approx 100mm |

## Summary of Lithology from Previous Investigations

| Location ID | Sampled Date | Maximum Depth Investigated at Location (m bgs) | Lithology Interval (m bgs) | Lithology Interval Description in Site Investigation Report | Anthropogenic Materials Encountered in Lithology Invertval in Site Investigation Report |
|---|---|---|---|---|---|
| BH10 | 3/09/2021 | 0.10 | 0.1 | Concrete | Concrete slab sample - used jackhammer to get chunk of pavement. Slab was approx 100mm |
| BH11 | 3/09/2021 | 0.10 | 0.10 - 0.11 | Concrete | Concrete slab sample - used jackhammer to get chunk of pavement. Slab was approx 100mm |
| BH12 | 3/09/2021 | 0.10 | 0.10 - 0.11 | FILL: grey, loose silty sand, adjacent to slab at approximately | Adjacent to slab at approximately basement of building loose, loose pieces of cement |
| BH13 | 3/09/2021 | 0.10 | 0.10 - 0.11 | FILL: grey, loose silty sand, adjacent to staircase | Concrete staircase |
| BH14 | 3/09/2021 | 0.65 | 0.1 | FILL: Gravelly Silty CLAY: poorly graded, grey / brown. | None |
| | | | 0.3 | FILL: Gravelly Silty CLAY: poorly graded, dark grey /dark brown. | None |
| | | | 0.5 | | None |
| BH15 | 3/09/2021 | 0.10 | 0.1 | FILL: Gravelly Silty CLAY: grey/brown. | None |
| | | 0.10 | 0.3 | Silty CLAY: low plasticity, red/brown, occasional sub-rounded gravel. | None |
| | | 0.10 | 0.5 | | None |
| BH16 | 3/09/2021 | 0.10 | 0.1 | FILL: Gravelly Silty CLAY: poorly graded, grey /brown. Becoming Dark grey / brown | None |
| | 3/09/2021 | 0.10 | 0.3 | FILL: Gravelly Silty CLAY: poorly graded, grey /brown. | None |
| | 3/09/2021 | 0.10 | 0.5 | | None |
| BH17 | 3/09/2021 | 0.10 | 0.1 | FILL: Gravelly Silty CLAY: poorly graded, grey / brown. With less gravel with depth | None |
| | 3/09/2021 | 0.10 | 0.3 | FILL: Ash and slag in silty clay matrix. | Ash, slag |
| | 3/09/2021 | 0.10 | 0.5 | Silty CLAY: Yellow / brown.. | Ash, slag |
| BH18 | 3/09/2021 | 0.10 | 0.1 | FILL: Gravelly Silty CLAY: poorly graded, brown. | None |
| | 3/09/2021 | 0.10 | 0.3 | FILL: poorly graded, silty clay.With layer ash in low plasticity clay matrix | Ash, slag |
| | 3/09/2021 | 0.10 | 0.5 | Silty CLAY: well graded,medium to high plasticity yellow/orange/brown. | Ash, slag |
| BH19 | 3/09/2021 | 0.10 | 0.1 | FILL: Gravelly Silty CLAY: poorly graded, grey /brown. | None |
| | 3/09/2021 | 0.10 | 0.3 | FILL: Gravelly Silty CLAY: poorly graded, grey /brown. | Ash, slag |
| | 3/09/2021 | 0.10 | 0.5 | Gravelly CLAY: poorly graded, yellow / brown, weathered bedrock. | None |
| BH20 | 3/09/2021 | 0.5 | 0.1 | FILL: Gravelly Silty CLAY: poorly graded, grey /brown. | None |
| | 3/09/2021 | 0.5 | 0.3 | | None |

## Summary of Lithology from Previous Investigations

| Location ID | Sampled Date | Maximum Depth Investigated at Location (m bgs) | Lithology Interval (m bgs) | Lithology Interval Description in Site Investigation Report | Anthropogenic Materials Encountered in Lithology Invertval in Site Investigation Report |
|---|---|---|---|---|---|
| | 3/09/2021 | 0.5 | 0.5 | Silty CLAY: well graded, medium plasticity, orange brown | None |
| BH21 | 3/09/2021 | 0.50 | 0.1 | CONCRETE | Concrete |
| | | | 0.3 | Silty CLAY: well graded, low to medium plasticity, red / brown. Becoming orange / brown particles in red brown silty clay with depth | None |
| | | | 0.5 | | |
| MW01 | 17/11/2021 | 6.00 | 0.1 | TOPSOIL: uniform, low plasticity, dark grey | None |
| | | | 0.3 | FILL: CLAYEY SAND: fine to medium grained, poorly graded, lowplasticity, dark grey. | dark grey/black ash throughout |
| | | | 0.6 | FILL: CLAYEY SAND: fine to coarse grained, poorly graded, low plasticity,brown. | None |
| | | | 1.4 | Silty CLAY: well graded, medium plasticity,brown. | None |
| | | | 2.4 | Silty CLAY: well graded, low plasticity, brown. | None |
| | | | 2.9 | WEATHERED MUDSTONE: poorly graded, low plasticity, brown. | None |
| | | | 3.5 | Silty CLAY: poorly graded, low plasticity, brown. | None |
| | | | 4.3 | WEATHERED MUDSTONE: poorly graded, low plasticity, yellow/brown. | None |
| | | | 6 | WEATHERED MUDSTONE: poorly graded, low plasticity, grey/brown. | None |
| SLAG-1 | 3/09/2021 | 0.10 | 0-0.1 | SLAG | SLAG |
| SLAG-2 | 3/09/2021 | 0.10 | 0-0.1 | SLAG | SLAG |

## K.6 REGIONAL TOPOGRAPHY

# QTOPO

## QTopo Map

### CULTURAL FEATURES

**Settlement**

CITY

Town

Village

Place of Interest
Residential Area
Industrial Area
Lookout
Police Station
Information Centre
Cemetery
Tourist Facility
Emergency Facility
High Voltage Transmission
Pipeline
Airport
Helipad
Waste Disposal
Place of Worship
Post Office
Commercial Area
Fire Station
Courthouses, Museums, Government Buildings
Library
Education Facility
Health Facility
Ambulance
Picnic Area
Homestead
Racecourse
Parks and Gardens
Sports Field
Correctional Facility
Defence Facility
Camping Ground
Building

**Transport**

Freeway/Highway — Above Ground, Tunnel
Major Roads
Connector Roads — Toll Point
Local Roads — Busway Station
Private Roads
4WD Tracks
Trails, Footpaths, Cycleways — Great Walk
Ferry
Railway (Open) — Station, Siding
Railway (Proposed) — Proposed, Freight
Railway (Closed) — Closed

**Cadastre**

Locality — WILSTON
State Forest
National Park
State Border
Nature Refuges, Timber Reserves, Other Conservation Parks
Lot Plan
Plan Number
Cadastral Line

D'AGUILAR NATIONAL PARK
YULE STATE FOREST
RAYNER NATURE REFUGE
RP71395

**RELIEF**

Contour
Bare Earth, Rock Outcrop
Sand Dunes
Peak — MT ETON 104M
Cave
Mine, Quarry
Sand Area

**VEGETATION**

Vegetation — Sparse, Dense
Orchard, Vineyard
Rainforest
Plantation
Mangrove

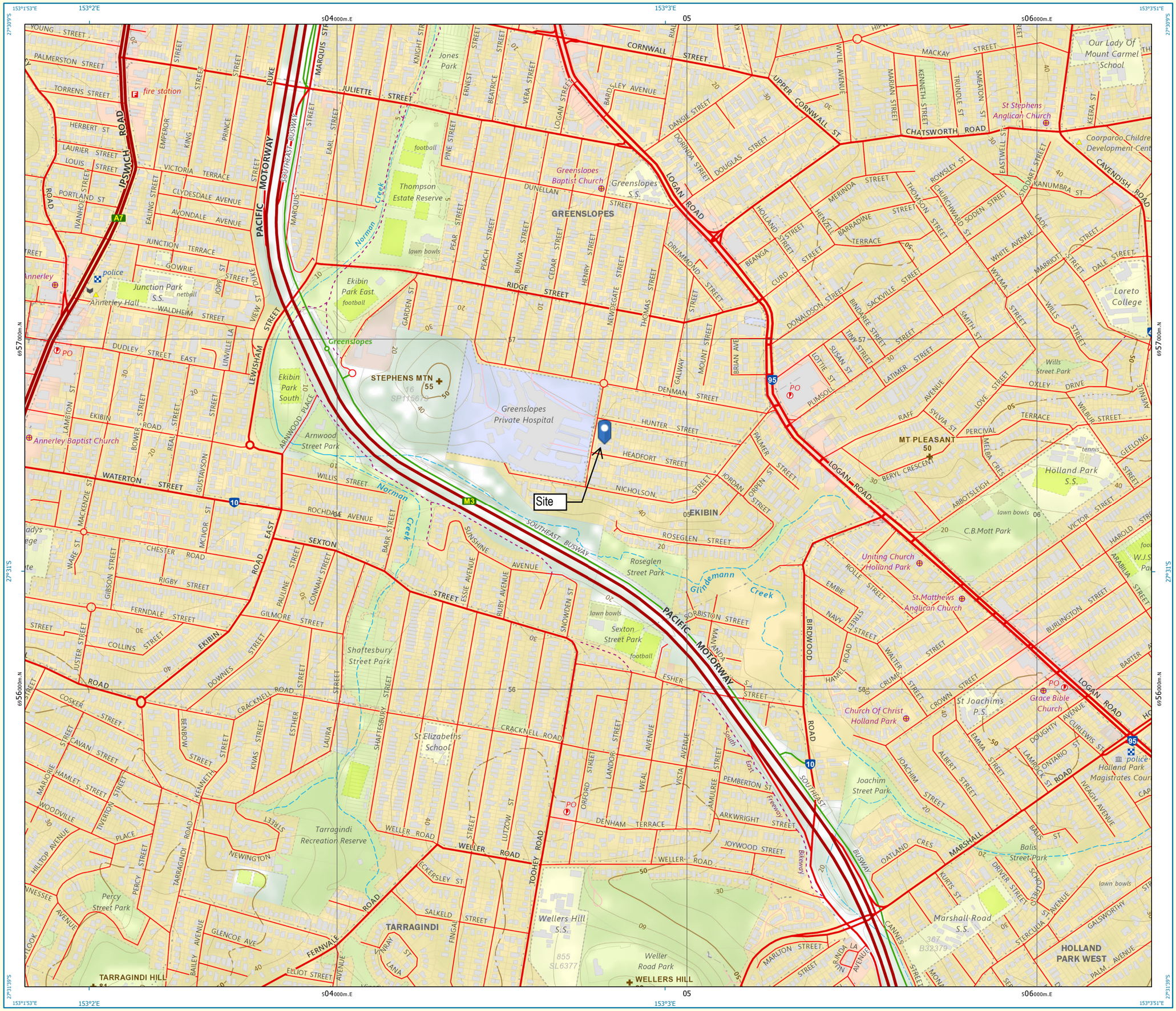
**HYDROGRAPHY**

Salt Evaporation Pond
Watercourse
Lake — Perennial, Non-Perennial
Subject to Inundation
Saline Coastal Flat
Aquaculture
Settling Pond
Marine Park
Marina
Jetty/Wharf
Breakwater
Surf Life Saving Club
Waterhole, Bore
Dam Wall, Weir
Drain, Channel
Swamp
Waterfall
Submerged Reef
Tidal Reef
Lighthouse
Rescue Facility
Feol Island (Turkeoar) (Alternative Name)

Scale: 1:10,000 (1 cm = 100 m)

0 50 100 200 300 400
Metres

Coordinate System: GDA2020 MGA Zone 56
Projection: Transverse Mercator
Datum: GDA2020
Units: Metre

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Produced: Wednesday, 3 April 2024.


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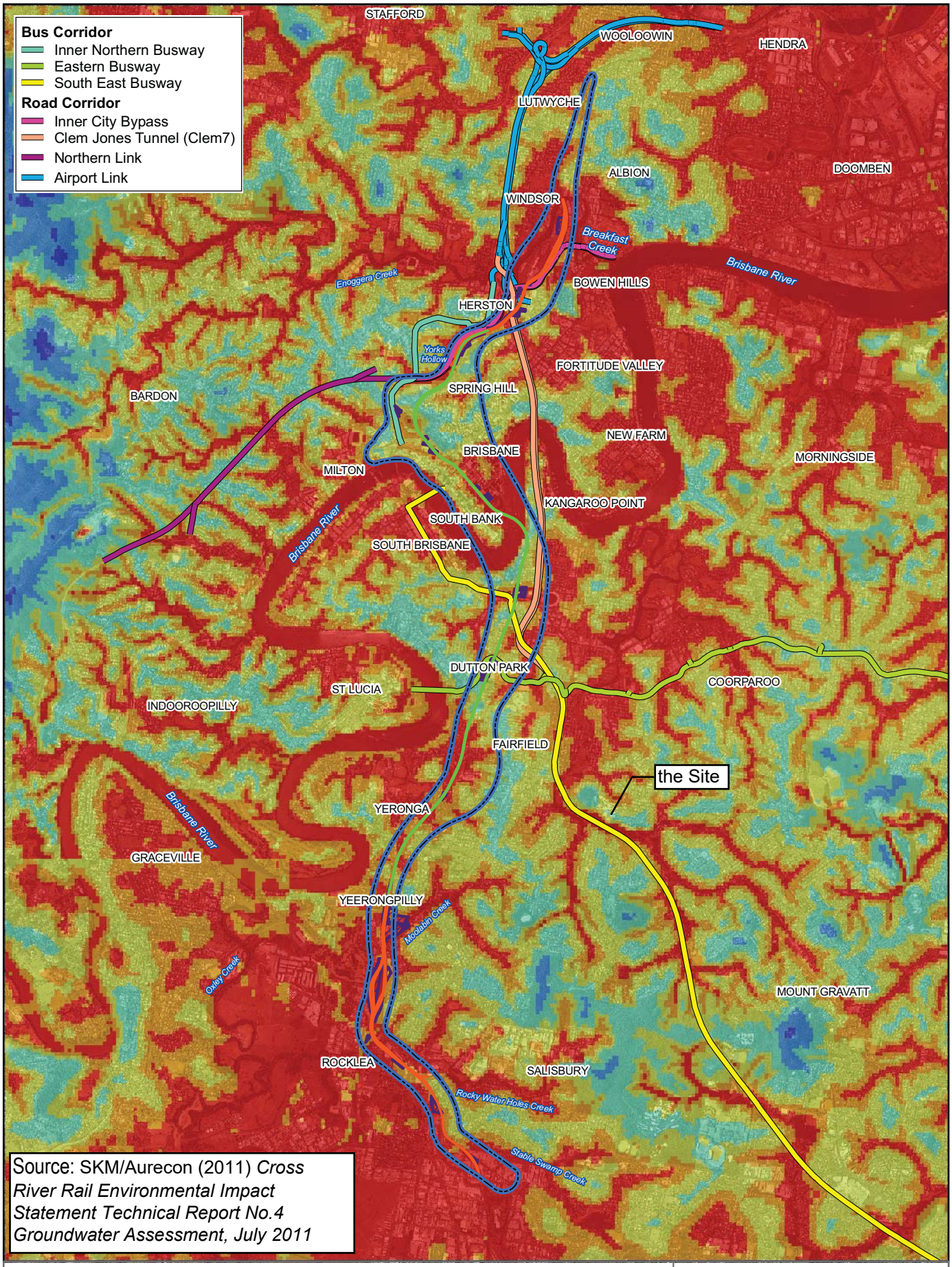
Queensland Government

# K.7 EXTRACT FROM CROSS RIVER RAIL EIS GROUNDWATER TECHNICAL REPORT




Source: SKM/Aurecon (2011) *Cross River Rail Environmental Impact Statement Technical Report No.4 Groundwater Assessment, July 2011*

**LEGEND**

Study Corridor

**Depth to Water Table (m)**

- 0 - 5
- 5 - 10
- 10 - 20
- 20 - 50
- 50 - 100
- > 100

**Alignment**

- Above Ground
- Underground
- Worksites

CROSS RIVER RAIL
ENVIRONMENTAL IMPACT STATEMENT

**Figure 2-3**

**Depth to Water Table**

0 0.5 1 1.5 2 2.5 km

1:75,000 at A4

N

CrossRiverRail

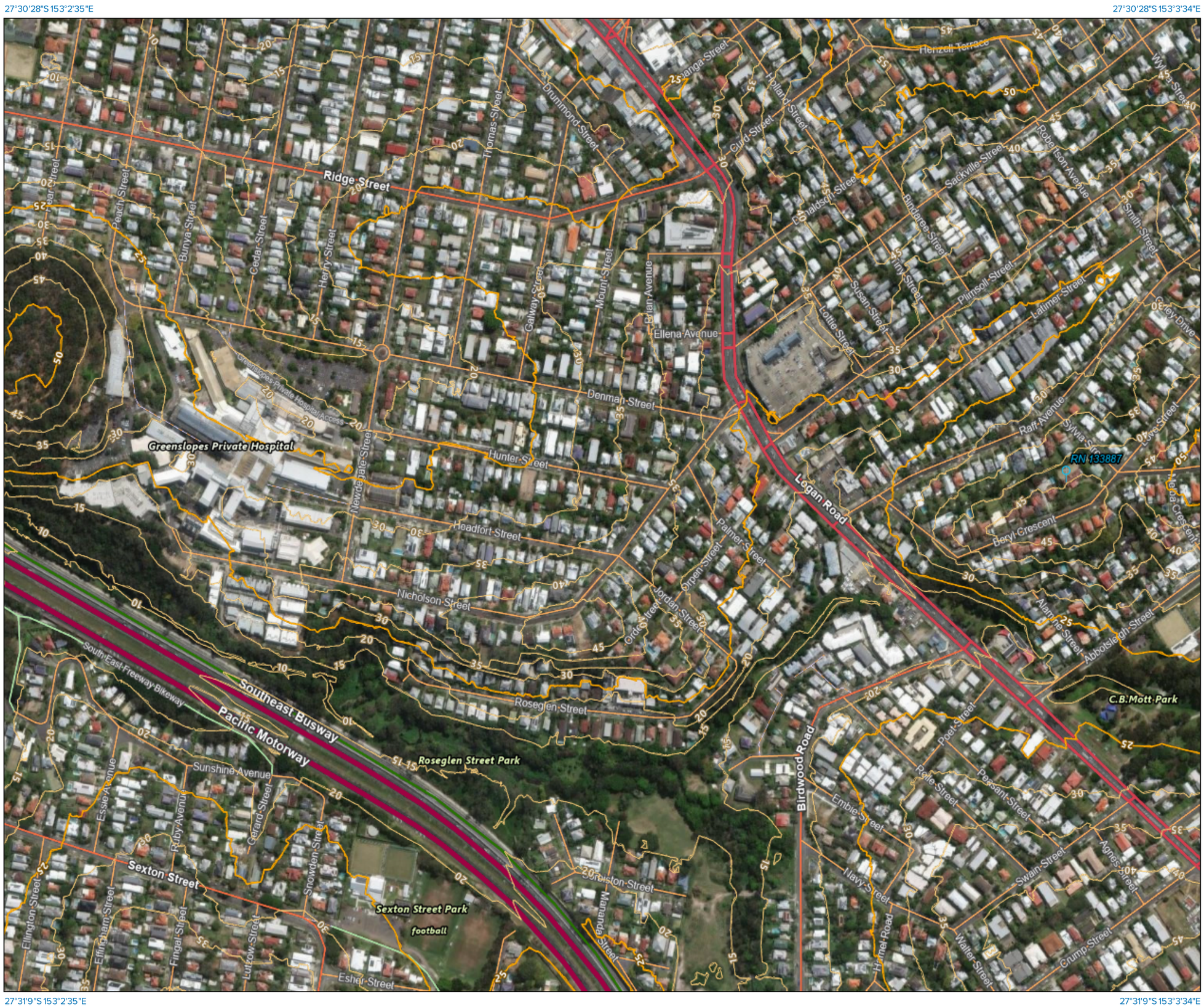
SKM aurecon CRR JOINT VENTURE

K:\Cross River Rail\600 Environment\619 GIS\SKM\Spatial\ArcGIS\Groundwater\20110608_Tech_Report_Figures\Figure_2_3_Depth_to_Water_Table_v1.mxd 06/07/2011 17:49

## K.8 REGISTERED BORE REPORTS

# RN133887

A product of Queensland Globe




Legend located on next page

Scale: 1:5500

Printed at: A3

Print date: 2/5/2024

Not suitable for accurate measurement.

**Projection:** Web Mercator EPSG 102100 (3857)

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Queensland Government

Department of Resources

# RN133887

## Legend

### Contour SRTM 10m

- Index Contour
- Intermediate Contour

### Contour LiDAR 5m

- Index Contour
- Intermediate Contour

### Contour LiDAR 1m

- Index Contour
- Intermediate Contour

### Cities and Towns

### Green bridges

### Bridges

### Tunnels

### Railway

### Railway station

### Registered water bores [RDMW and private]

- Artesian bore
- Artesian bore (abandoned but useable)
- Artesian bore (abandoned and destroyed)
- Artesian bore, ceased to flow
- Artesian bore, ceased to flow (abandoned but useable
- Artesian bore, ceased to flow (abandoned and destroyed)
- Sub-artesian facility
- Sub-artesian facility (abandoned but useable)
- Sub-artesian facility (abandoned and destroyed)
- Surface water facility
- Surface water facility (abandoned but useable)
- Surface water facility (abandoned and destroyed)

### Roads and tracks

- Motorway
- Highway
- Secondary
- Connector
- Local
- Restricted Access Road
- Mall
- Busway
- Bikeway
- Restricted Access Bikeway
- Walkway
- Restricted Access Walkway
- Non-vehicular Track
- Track
- Restricted Access Track
- Ferry
- Proposed Thoroughfare

## Attribution

Maxar

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**Report Date:** 02/05/2024 20:39

# Bore Report

**From Year:**

| Registered Number | Facility Type | Facility Status | Drilled Date | Office | Shire |
|---|---|---|---|---|---|
| 133887 | Sub-Artesian Facility | Abandoned and Destroyed | 11/04/2006 | Brisbane | 1000 - BRISBANE C. |

## Details

| | | | |
|---|---|---|---|
| **Description** | | | |
| **Parish** | 758 - BULIMBA | | |
| **Original Name** | | | |
| **Driller Name** | DIPPEL, KENNETH ALLAN | | |
| **Drill Company** | K.A. & L.C. DIPPEL | | |
| **Const Method** | ROTARY AIR | | |
| **Bore Line** | | | |
| **D/O File No** | | **Polygon** | |
| **R/O File No** | | **Equipment** | |
| **H/O File No** | | **RN of Bore Replaced** | |
| **Log Received Date** | 10/07/2006 | **Data Owner** | |
| **Roles** | Water Supply | | |

## Location

| | | | |
|---|---|---|---|
| **Latitude** | 27-30-47 | **Basin** | 1430 |
| **Longitude** | 153-03-28 | **Sub-area** | |
| **GIS Latitude** | -27.513177 | **Lot** | 127 |
| **GIS Longitude** | 153.0576848 | **Plan** | RP13250 |
| **Easting** | 505697 | | |
| **Northing** | 6956722 | **Map Scale** | |
| **Zone** | 56 | **Map Series** | |
| **Accuracy** | GPS | **Map No** | |
| **GPS Accuracy** | 10 | **Map Name** | |
| **Checked** | Yes | **Prog Section** | |

## Casing

**3** *records for RN* 133887

| Pipe | Date | Rec | Top (m) | Bottom (m) | Material Description | Mat Size (mm) | Size Desc | Outside Diameter (mm) |
|---|---|---|---|---|---|---|---|---|
| A | 11/04/2006 | 1 | 5.00 | 65.50 | Cuttings or other fill between casing and hole wall | | | |
| A | 11/04/2006 | 2 | 0.00 | 1.00 | Grout | | | 230 |
| A | 11/04/2006 | 3 | 1.00 | 5.00 | Grout | | | 190 |

## Strata Logs

**13** *records for RN* 133887

# Bore Report

**From Year:**

| Rec | Top (m) | Bottom (m) | Strata Description |
|---|---|---|---|
| 1 | 0.00 | 0.30 | TOPSOIL |
| 2 | 0.30 | 1.10 | CLAY YELLOW |
| 3 | 1.10 | 2.40 | ROCK PINKISH POWDERY |
| 4 | 2.40 | 3.00 | YELLOW SCHIST POWDERY |
| 5 | 3.00 | 3.40 | PINK POWDERY ROCK |
| 6 | 3.40 | 24.40 | ROCK YELLOW & BROWN & GREY POWDERY |
| 7 | 24.40 | 26.80 | GREY SANDSTONE |
| 8 | 26.80 | 27.40 | FRACTURED GREY SANDSTONE |
| 9 | 27.40 | 39.60 | GREY SANDSTONE |
| 10 | 39.60 | 51.20 | GREY SHALE & SANDSTONE |
| 11 | 51.20 | 52.40 | SOFTER GREY SHALE WET |
| 12 | 52.40 | 57.90 | GREY SANDSTONE & SHALE |
| 13 | 57.90 | 65.50 | BLACK SOFTER SHALE |

## Stratigraphies

**0** *records for RN* **133887**

## Aquifers

**1** *records for RN* **133887**

| Rec | Top (m) | Bottom (m) | Lithology | Date | SWL (m) | Flow | Quality | Yield (L/s) | Contr | Cond | Formation Name |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 51.20 | | SHLE - Shale | | | | SALTY | 0.03 | Y | UC | |

## Pump Tests Part 1

**0** *records for RN* **133887**

## Pump Tests Part 2

**0** *records for RN* **133887**

## Bore Conditions

**0** *records for RN* **133887**

## Elevations

**0** *records for RN* **133887**

# Bore Report

**From Year:**

| | | | |
|---|---|---|---|
| **Water Analysis Part 1** | **0** | ***records for RN*** | **133887** |
| **Water Analysis Part 2** | **0** | ***records for RN*** | **133887** |
| **Water Levels** | **0** | ***records for RN*** | **133887** |
| **Wire Line Logs** | **0** | ***records for RN*** | **133887** |
| **Field Measurements** | **0** | ***records for RN*** | **133887** |
| **Special Water Analysis** | **0** | ***records for RN*** | **133887** |

# Bore Report

**From Year:**

**User Licence and Conditions**

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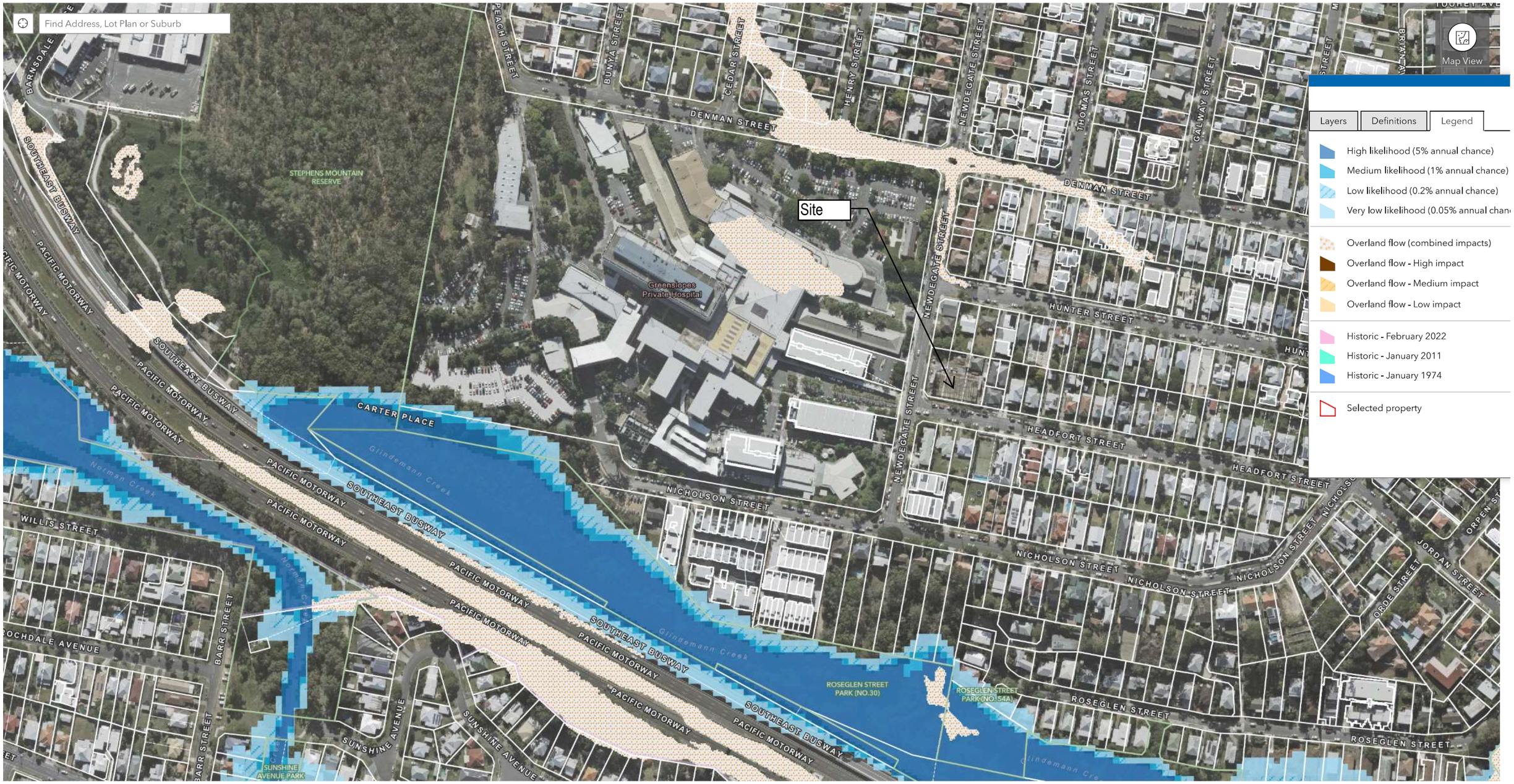
## K.9 FLOOD RISK

Brisbane City Council
**Flood Information**

Menu

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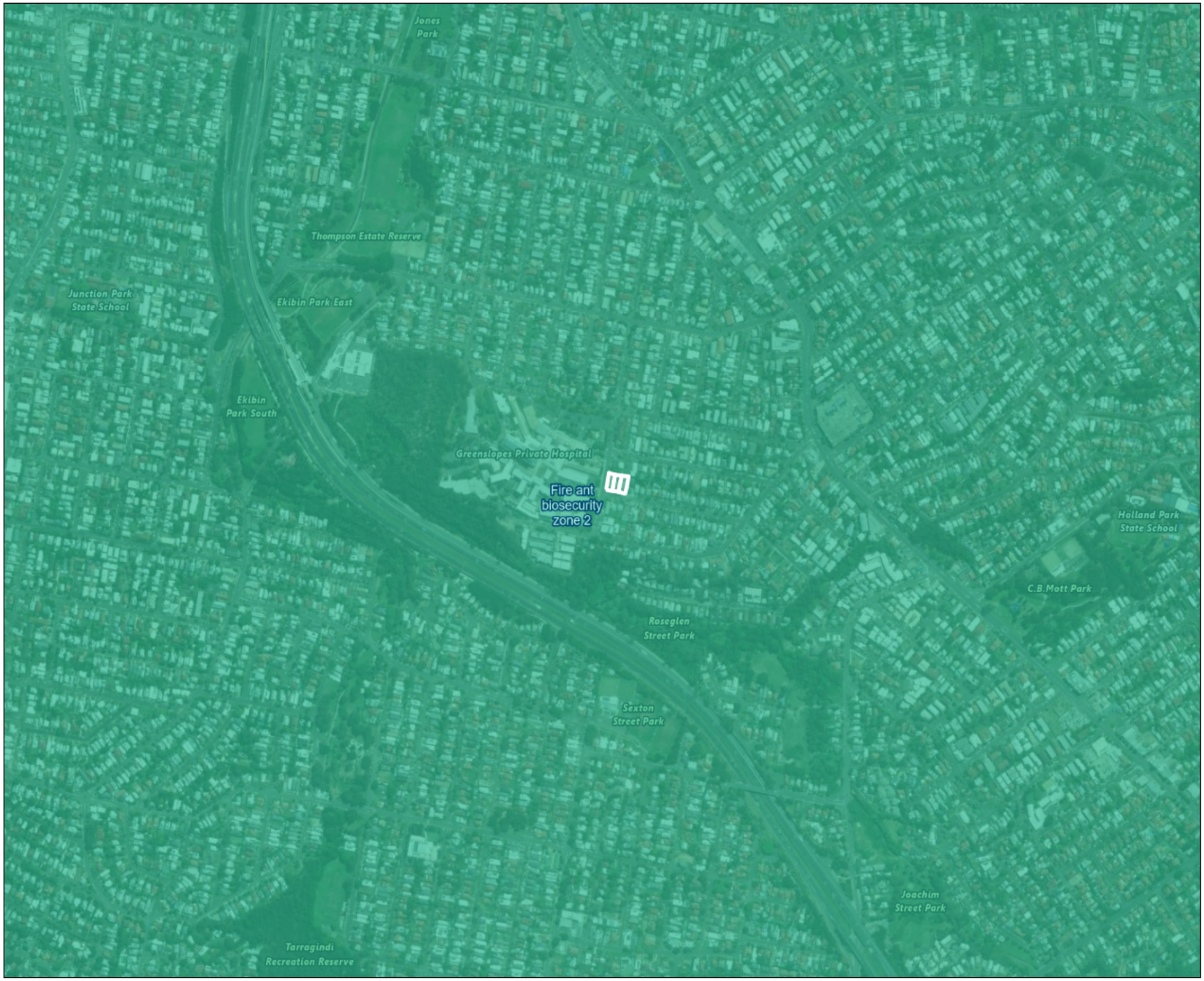
# K.10 FIRE ANTS

# 51, 53 and 55 Headfort Street, Greenslopes

## Fire Ant Biosecurity Zone

503245.02E 6957825.88N (Zone 56)

506209.98E 6957824.74N (Zone 56)




503244.42E 6955544.63N (Zone 56)

506208.83E 6955543.48N (Zone 56)

A product of Queensland Globe

Legend located on next page

N

0 250 metres

Scale: 1:10000

Printed at: A3

Print date: 3/4/2024

Not suitable for accurate measurement.

**Projection:** Web Mercator EPSG 102100 (3857)

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Queensland Government

Department of Resources

# 51, 53 and 55 Headfort Street, Greenslopes

## Fire Ant Biosecurity Zone

### Legend

#### Fire ant

- Fire ant biosecurity zone 1
- Fire ant biosecurity zone 2
- Fire ant biosecurity zone 3

#### Places: Search Results

123RP46047

124RP46047

125RP46047

### Attribution

Maxar

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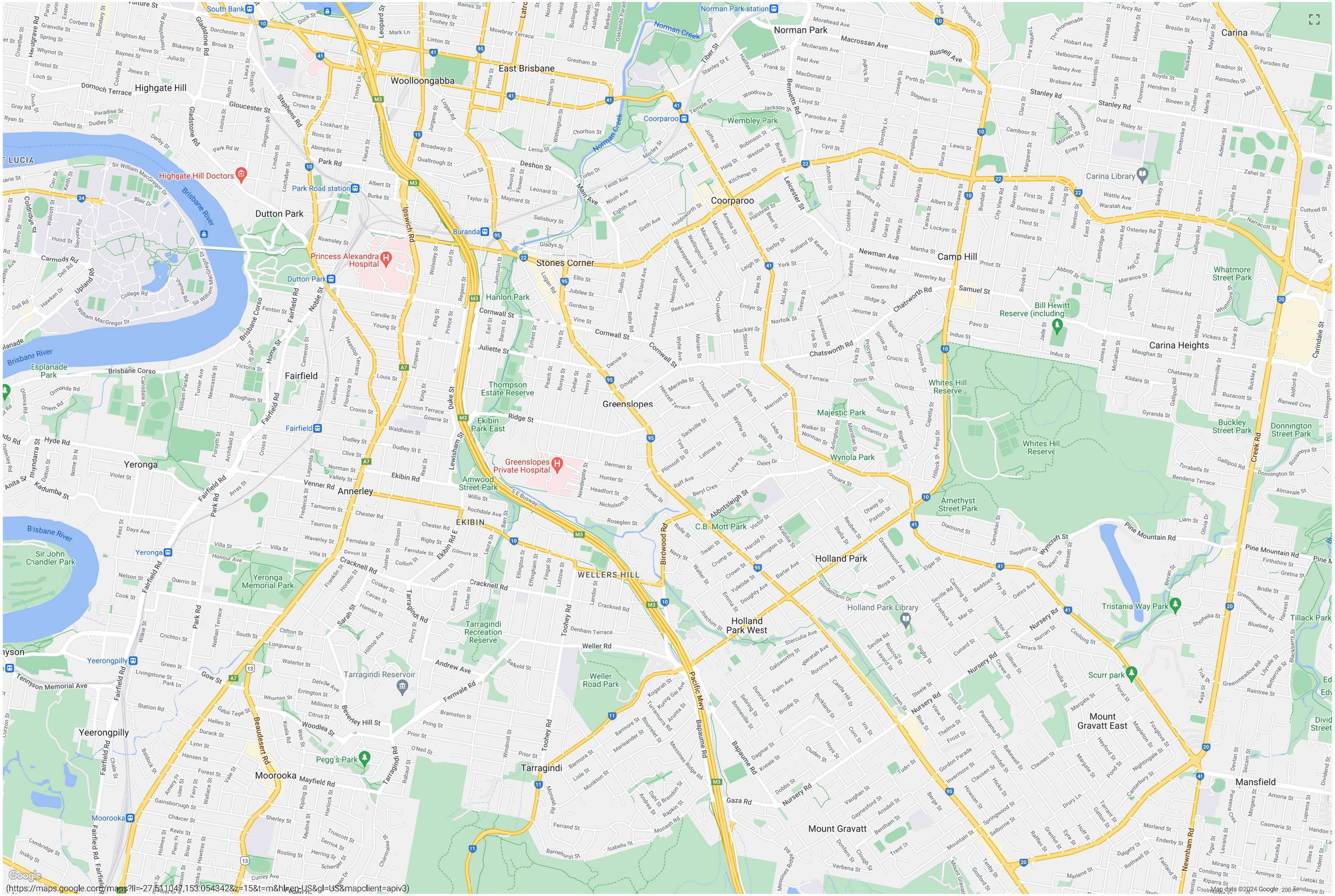
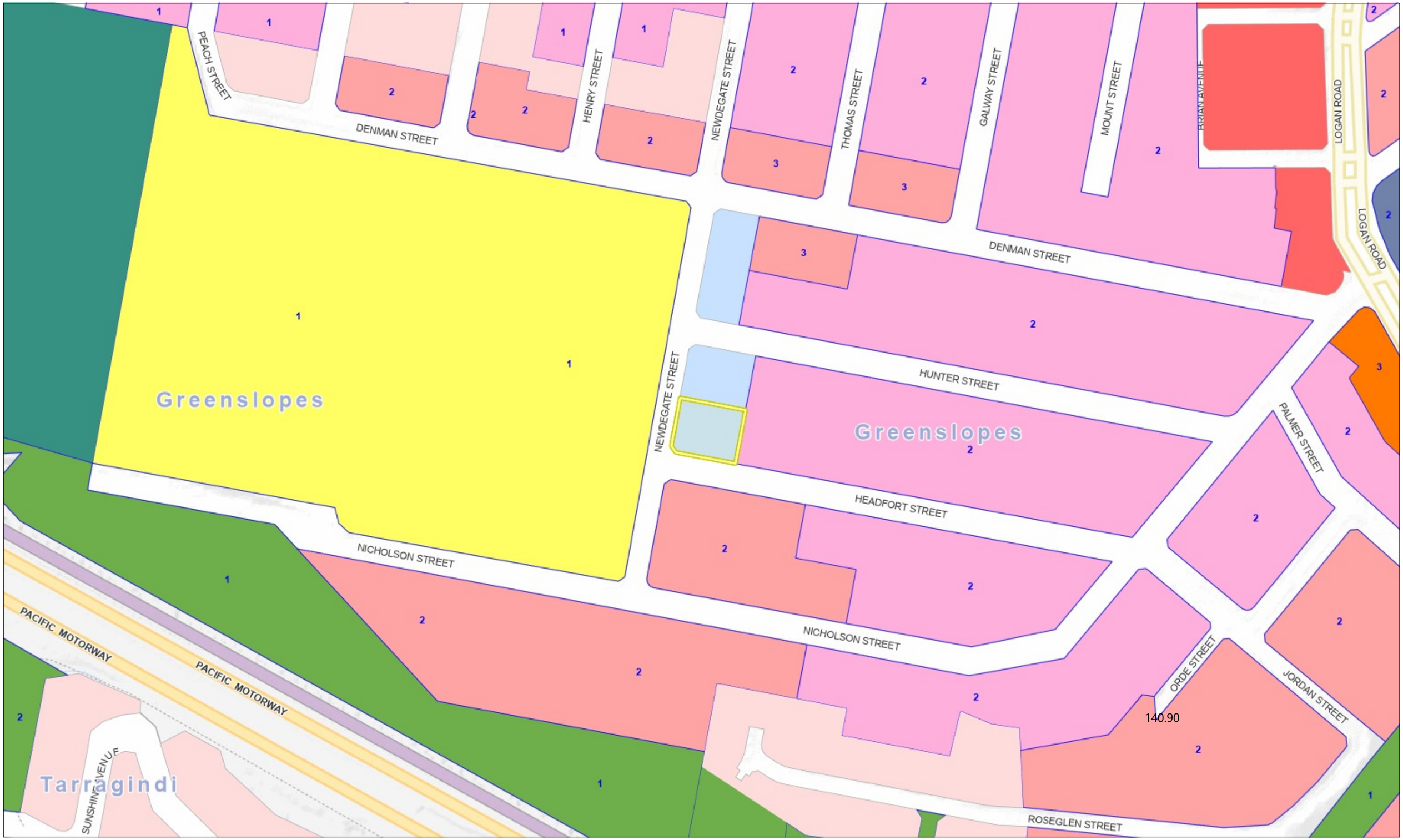
## K.11 UNEXPLODED ORDINANCE




(https://maps.google.com/maps?ll=-27.511047,153.054342&z=15&t=m&hl=en-US&gl=US&mapclient=apiv3)

# K.12 BCC CITY PLAN

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3/05/2024 - 2:15 PM

Projection:
Web Mercator Auxiliary Sphere

Notes:

# BCC Land Zoning City Plan 2014

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Contours © 2002, 2009 AAMHatch
Road Network © State of Queensland (Department of Resources) 2023

N

BRISBANE CITY

*Dedicated to a better Brisbane*

125.0 0 62.0 93.8 125.0

Metres

Scale: 1: 2,500

## Legend

Zoning

- LMR1 Low-medium density residential
- LMR2 Low-medium density residential
- LMR3 Low-medium density residential
- HDR1 High density residential (Up to 8
- HDR2 High density residential (Up to 1
- TA Tourist accommodation
- NC Neighbourhood centre
- DC1 District centre (District)
- DC2 District centre (Corridor)
- MC Major centre
- PC1 Principal centre (City centre)
- PC2 Principal centre (Regional centre)
- LII Low impact industry
- IN1 General industry A
- IN2 General industry B
- IN3 General industry C
- SI Special industry
- II Industry investigation
- SR Sport and recreation
- SR1 Sport and recreation (Local)
- SR2 Sport and recreation (District)
- SR3 Sport and recreation (Metropolita
- OS Open space
- OS1 Open space (Local)
- OS2 Open space (District)
- OS3 Open space (Metropolitan)
- EM Environmental management
- CN Conservation
- CN1 Conservation (Local)
- CN2 Conservation (District)
- CN3 Conservation (Metropolitan)
- EC Emerging community
- EI Extractive industry
- MU1 Mixed use (Inner city)
- MU2 Mixed use (Centre frame)
- MU3 Mixed use (Corridor)
- RU Rural
- RR Rural residential
- T Township
- CF1 Community facilities (Major healt
- CF2 Community facilities (Major sports
- CF3 Community facilities (Cemetery)
- CF4 Community facilities (Community
- CF5 Community facilities (Education p
- CF6 Community facilities (Emergency
- CF7 Community facilities (Health care
- SC1 Specialised centre (Major educati
- SC2 Specialised centre (Entertainmen
- SC3 Specialised centre (Brisbane Mar
- SC4 Specialised centre (Large format
- SC5 Specialised centre (Mixed industr
- SC6 Specialised centre (Marina)
- SP1 Special purpose (Defence)
- SP2 Special purpose (Detention facility
- SP3 Special purpose (Transport infras
- SP4 Special purpose (Utility services)
- SP5 Special purpose (Airport)
- SP6 Special purpose (Port)

Refer to Part 10 of the planning schem

Property Holding

Sealed Plan

Parcel - Outside Brisbane

## K.13 LANDUSE

# Landuse

27°30'32"S 153°2'24"E

27°30'32"S 153°3'18"E

27°31'9"S 153°2'24"E

27°31'9"S 153°3'18"E

A product of Queensland Globe

Legend located on next page

N

0 100 metres

Scale: 1:5000

Printed at: A3

Print date: 3/5/2024

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Queensland Government

Department of Resources

# Landuse

## Legend

### Roads and tracks

- Motorway
- Highway
- Secondary
- Connector
- Local
- Restricted Access Road
- Mall
- Busway
- Bikeway
- Restricted Access Bikeway
- Walkway
- Restricted Access Walkway
- Non-vehicular Track
- Track
- Restricted Access Track
- Ferry
- Proposed Thoroughfare

### Green bridges

### Bridges

### Tunnels

### Railway

### Railway station

## Attribution

Maxar

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# K.14 HISTORICAL LAND TITLES

VOL: S 9506 FOL: 154
19506154

7574

1.]

# NEW SOUTH WALES.

County Stanley

Parish Bulimba

Date of Purchase 29th December 1857

Area 52 Acres

## A. LAND PURCHASE.

58/154

**VICTORIA, by the Grace of God, of the United Kingdom of Great Britain and Ireland, Queen, Defender of the Faith, and so forth:—**

**TO ALL to whom these Presents shall come, Greeting:—**

WHEREAS in conformity with the Regulations now in force for the Sale of Crown Lands in Our Territory of NEW SOUTH WALES, Thomas Blackett Stephens of Brisbane has become the Purchaser of the Land hereinafter described, for the Sum of Fifty two pounds Sterling; **Now Know Ye,** That for and in consideration of the said Sum for and on Our behalf, well and truly paid into the Colonial Treasury of Our said Territory, before these Presents are issued, And in further consideration of the Quit-Rent hereinafter Reserved, WE, with the advice of OUR Executive Council of NEW SOUTH WALES, HAVE GRANTED, and for Us, Our Heirs and Successors, DO HEREBY GRANT unto the said Thomas Blackett Stephens his Heirs and Assigns, Subject to the several and respective Reservations hereinafter mentioned, ALL THAT Piece or Parcel of Land in Our said Territory, containing by Admeasurement Fifty two Acres be the same more or less, situated in the County of Stanley and Parish of Bulimba — Portion number one hundred and two - Commencing on a road one chain wide at the north east corner of Portion number one hundred and three, and Bounded thence on the West by a line dividing it from that Portion, bearing South nineteen Chains forty links; On the Southerly part of the Southern boundary of Portion number Eighty five in parish of Yeerongpilly, being a Line easterly at an angle of ninety one degrees forty minutes with the West boundary six chains fifty five links; thence South easterly at an angle of two hundred and fourteen degrees forty four minutes seven Chains Sixty links; and thence at an angle of one hundred and fifty five degrees five minutes ten chains sixty one links; - On the East by a road one chain wide, dividing it from Portion number One hundred and one, northerly at an angle of seventy eight degrees twenty four minutes with the last boundary twenty six chains forty links; and on the north by the first mentioned road, dividing it from part of portion number one hundred and four, bearing West twenty three chains to the point of commencement; Being the Land sold as Lot 4 in pursuance of the proclamation of 9th November 1857

with all the Rights and Appurtenances whatsoever thereto belonging: **To Hold** unto the said Thomas Blackett Stephens his Heirs and Assigns for ever, YIELDING and Paying therefore Yearly unto Us, Our Heirs and Successors, the Quit-Rent of One Peppercorn for ever, if demanded; **Provided Nevertheless,** AND WE DO HEREBY RESERVE Unto Us, Our Heirs and Successors, all such parts and so much of the said Land as may hereafter be required for making Public Ways, Canals, or Railroads, in, over, and through the same, to be set out by Our Governor for the time-being of Our said Territory, or some person by him authorised in that respect; AND ALSO, all Sand, Clay, Stone, Gravel, and Indigenous Timber, and all other Materials, the natural produce of the said Land, which may be required at any time or times hereafter, for the construction and repair of any Public Ways, Bridges, Canals, and Railroads, or any Fences, Embankments, Dams, Sewers, or Drains, necessary for the same, together with the right of taking and removing all such Materials; AND WE DO HEREBY FURTHER RESERVE unto Us, Our Heirs and Successors, the right of full and free ingress, egress, and regress, into, out of, and upon the said Land, for the several purposes aforesaid: **In Testimony Whereof,** We have caused this Our Grant to be Sealed with the Seal of Our said Territory.

*WITNESS Our Trusty and Well-beloved* SIR WILLIAM THOMAS DENISON, *Knight Commander of the Most Honorable Order of the Bath, Governor General in and over all Our Colonies of* NEW SOUTH WALES, TASMANIA, VICTORIA, SOUTH AUSTRALIA, *and* WESTERN AUSTRALIA, *and Captain General and Governor-in-Chief of Our Territory of* NEW SOUTH WALES *and its Dependencies, at Government House, Sydney, in* NEW SOUTH WALES *aforesaid, this* Thirteenth *day of* April *in the* Twenty first *Year of Our Reign; And in the Year of Our Lord One Thousand eight hundred and fifty-*eight

*L.S.* *(Signed)*

Received this 28th day of October 1858

Int. P. 13th Sept. 1858

FULL CANCELLED 2 APR 1975

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To all to whom these presents shall come Greeting: Whereas the area and the description as written in the within deed of Grant are erroneous and it is intended to correct the same. Now Know ye that I Charles Wallace Alexander Napier Baron Lamington Knight Commander of the most distinguished Order of St Michael and St George Governor and Commander in chief of the Colony of Queensland and its dependencies by virtue of "The Titles to Land Act of 1858" do hereby declare that the area "Fifty two acres one rood twenty seven perches" be read and taken as substituted for the area "Fifty two acres" in the within grant and in every deed containing the said erroneous area. Also that the following description be read and taken as substituted for the description in the within grant and in every deed containing the said erroneous description that is to say: Commencing at the northeast corner of portion one hundred and three and bounded thence on the west by that portion bearing 180 degrees 7 minutes nineteen chains and forty links, on the south by portion eighty six parish of Yeerongpilly bearing 91 degrees 47 minutes six chains and fifty five links, on the southwest by that portion bearing 126 degrees 31 minutes seven chains and sixty links and 101 degrees 33 minutes ten chains and sixty three and seven tenths links, on the east by a line bearing north twenty six chains and thirty two and four tenths links and on the north by a line bearing 269 degrees 50 minutes twenty three chains and four links to the point of commencement. as shown on plan of survey deposited in the Surveyor Generals Office

Given under my hand and the seal of the said Colony at Government House Brisbane this third day of August in the year of our Lord one thousand eight hundred and ninety seven

(sgd) Lamington

L.S

By His Excellency's Command
(sgd) J. F. G. Foxton

Entered in the Register of Errors in Deeds Book 5 page 447 in the Surveyor Generals Office Brisbane this fourth day of August A.D. 1897.

(sgd) T. K. Perse
Chief Clerk

Entry of Correction made this 9 day of August 1897

Alex. E. Holcombe

Dep. Registrar of Titles

751/9056

VOL: S 927 FOL: 35
10927035

No. 1500445

d No. 3880

(C)

QUEENSLAND.

No. of Application 1/5/44 Register Book, Vol. 927 Folio 35

# CERTIFICATE OF TITLE.

Anne Stephens

of Brisbane, Widow, is now seized of an Estate in Fee Simple, subject nevertheless to such encumbrances, liens, and interests, as are by memorandum notified hereon, in All that piece of Land situated in the County of Stanley Parish of Bulimba Being Portion One hundred and two containing by admeasurement fifty-two acres, one rood, twenty-seven perches more or less, commencing at the North-East corner of Portion one hundred and three and bounded thence on the West by that Portion bearing 180° 5' nineteen chains forty links on the South by Portion eighty-six Parish of Yeerongpilly bearing 91° 14' six chains fifty-five links on the South-West by that Portion bearing 126° 31' seven chains sixty links and 101° 35' two chains sixty-three links and seven tenths of a link on the East by a line bearing North twenty-six chains thirty-two links and four tenths of a link and on the North by a line bearing 269° 50' twenty-three chains four links to the Point of commencement

which said piece of Land is the whole of the Portion marked 102 delineated in the Public Map of the said Parish deposited in the Office of the Surveyor-General, originally granted the thirteenth day of April 1858 by Deed of Grant No. 58/154 under the Seal of the Colony of New South Wales and the Hand of Sir William Thomas Denison, K.C.B., then Governor of the said Colony, to Thomas Blackett Stephens.

Saving Always to the Crown all the rights and interests reserved to it by the said Deed of Grant.

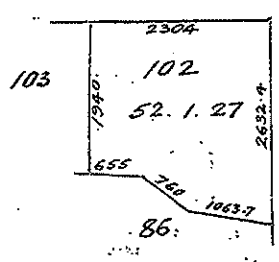
In Witness whereof, I have hereunto signed my name and affixed my seal this Fourteenth day of October One thousand eight hundred and ninety-Seven.

Signed, Sealed, and Delivered, the 14 day of October 1897, in presence of R Mills

J P Bourne
Registrar of Titles.

REGISTRAR OF TITLES QUEENSLAND

Parish of Bulimba




Scale, 20 Chains per inch.

No. 3/3667 Bill of Mortgage produced 22 Oct 1897 at 11.57 a.m. registered 12 Nov 1897 from Anne Stephens to The Australian Mutual Provident Society principal sum secured Fourteen Thousand pounds, repayable as therein stated interest at the rate of £5/10 per centum per annum payable quarterly

Dep. Registrar of Titles.

RELEASED No. endorsed on Bill of Mortgage No. Registrar of Titles

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No. 391798 LEASE produced 24 July 1903 at 3.13 p.m. registered 11 Nov Sep 1903 from Anne Stephens to The Commonwealth of Australia

Term 3 years from 1 Jan 1901
Rental £10 per annum payable yearly
Consent of mortgagee endorsed

Dep. Registrar of Titles.

NEW TITLE No. 133871a

PURSUANT to Memo. of TRANSFER No. 405936 Produced 25 Aug 1904 at 2:56pm Regd. 1 Sep 1904

Stephens Estates Limited

OF is now SEISED of an Estate IN FEE SIMPLE in the WHOLE of the within land.
Subject to Mortgage 313667

Witness:
R Mills

Registrar of Titles.

No. 410399 Bill of Mortgage produced 3 Jan. 1905 at 3.31 p.m., registered 9 Jan. 1905, from Stephens Estates Limited to THE AUSTRALIAN MUTUAL PROVIDENT SOCIETY, principal sum secured Fourteen thousand pounds and further advances repayable 1 Jan. 1910. Interest at the rate of 6 per centum per annum payable quarterly

Dep. Registrar of Titles.

No. 756832 TRANSFER of 46 acs 26 perchs Sub 1 to War Service Homes Commissioner produced 20 Dec 1919 at 10.26 AM registered 29 Jan 1920

Cancelled as above vide Vol. 1441 Fol. 181

Dep. Registrar of Titles.

No. 997476 TRANSFER of 6 acs 39 3/10 perchs Sub 2 to Ellen Hall

Produced 20 Oct 1926 at noon registered 13 May 1927

Cancelled as above vide Vol. 1703 Fol. 37

REGISTRAR OF TITLES.

997476
12-11-26
16-12-26
25-1-27
17-2-27
A13406
22-3-27

FULLY CANCELLED

№ 24383

143

QUEENSLAND.

County Stanley

Parishes Bulimba and Yeerongpilly

Date of Purchase 17th July 1872

Area 4 ac: 0r: 32p.

# A. LAND PURCHASE.

VICTORIA, by the Grace of God, of the United Kingdom of Great Britain and Ireland, Queen, Defender of the Faith, and so forth:—

TO ALL to whom these Presents shall come, Greeting:—

WHEREAS, in conformity with the Regulations now in force for the Sale of Crown Lands in Our Territory of Queensland, Thomas Blacket Stephens of Brisbane has become the Purchaser of the Land hereinafter described, for the Sum of Four pounds four shillings Sterling.

Now Know Ye, That for and in consideration of the said Sum, for and on Our behalf well and truly paid into the Colonial Treasury of Our said Territory, before these Presents are issued, And in further consideration of the Quit-Rent hereinafter reserved, We, with the advice of Our Executive Council of Queensland, have granted, and for Us, Our Heirs and Successors, do hereby Grant unto the said Thomas Blacket Stephens his Heirs and Assigns, subject to the several and respective Reservations hereinafter mentioned, All that Piece or Parcel of Land in Our said Territory, containing by Admeasurement Four acres and thirty two perches be the same more or less, situated in the County of Stanley and Parishes of Bulimba and Yeerongpilly

Portion One hundred and two A: commencing at the northwest corner of portion one hundred and one and bounded thence on the north by a line bearing west one chain on the west by portions one hundred and two and eighty six bearing south forty two chains on the south by a line bearing east one chain and on the east by portions eighty seven and one hundred and one bearing north forty two chains to the point of commencement Being the land purchased by the said Thomas Blacket Stephens under the 29th clause of the Crown Lands Alienation Act of 1868"

To Hold unto the said Thomas Blacket Stephens with all the Rights and Appurtenances whatsoever thereto belonging: his Heirs and Assigns for ever, Yielding and paying therefor Yearly unto Us, Our Heirs and Successors, the Quit-Rent of One Peppercorn for ever, if demanded: Provided Nevertheless, and We do hereby Reserve unto Us, Our Heirs and Successors, all such parts and so much of the said Land as may hereafter be required for making Public Ways, Canals, or Railroads, in, over, and through the same, to be set out by Our Governor for the time being of Our said Territory, or some person by him authorised in that respect; And also all Sand, Clay, Stone, Gravel, and Indigenous Timber, and all other Materials, the natural produce of the said Land, which may be required at any time or times hereafter for the construction and repair of any Public Ways, Bridges, Canals, and Railroads, or any Fences, Embankments, Dams, Sewers, or Drains, necessary for the same, together with the right of taking and removing all such Materials; And We do hereby further Reserve unto Us, Our Heirs and Successors, the right of full and free ingress, egress, and regress, into, out of, and upon the said Land, for the several purposes aforesaid: In Testimony Whereof We have caused this Our Grant to be Sealed with the Seal of Our said Territory.

*WITNESS Our Right Trusty and Entirely-beloved Cousin and Councillor* GEORGE AUGUSTUS CONSTANTINE, *Marquis of Normanby, Governor of the Colony of Queensland and its Dependencies, at Government House, Brisbane, in* QUEENSLAND *aforesaid, this* tenth *day of* January *in the* thirty-sixth *Year of Our Reign; and in the Year of Our Lord One Thousand Eight Hundred and* seventy-three.

Normanby

VOL: S 196 FOL: 143

10196143

*ENTERED in the Register Book* —, *Vol.* 196, *Folio* 143, *this* eighteenth *day of* January 1873.

J. M. Nelson

Pep REGISTRAR-GENERAL.

7-13-72.

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No. 51365 Transmission by Death. In consequence of the death of Thomas Blackett Stephens upon the 26th day of August 1877 his estate in the within land became transmitted to Anne Stephens of South Brisbane her widow the devisee named in the Will of the said deceased dated the 12th day of May 1875 as appears by the probate copy thereof and the declaration of the said devisee produced 19th February 1878 at 2.41 pm entered 16 April 1878

Thos. Mitchell

P102A Bulimba 44 pilly Dep. Reg. Genl.

NEW TITLE No. 133895a.

PURSUANT to Memo. of TRANSFER No. 405936 Produced 25 Aug 1904 at 2.56 p.m. Regd. 1 Sep 1904

Stephens Estates Limited

OF ..... is now SEISED of an Estate IN FEE SIMPLE in the WHOLE of the within land.

Witness: R. Mills

T. Mitchell
Registrar of Titles.

No. 570825 TRANSFER of 1ac 1rd 3pches sub 1A to Jens Peter Kragh and Annie Kragh. produced 22 Aug 1913 at 3.45 pm registered 20 Sep 1913

Connected as above vide Vol. 253 Fol. 84

Dep. Registrar of Titles.

570825
Vol 85
29/8/13
4/9/13

No. 706832 TRANSFER of 2ac 1rd Sub 1 to War Service Homes Commissioner 20 Dec 19 10.26 AM registered 29 Jan 20

Connected with above vide Vol. 1441 Fol. 181

Dep. Registrar of Titles

Rec
Q 99476
sub
12-11-26
16-12-26
25-1-27
17-2-27
(A134 06)
22-3-27

No. 957476 TRANSFER of 1rd 21 7/10 pches Sub 2 to Ellen Hall 20 Oct 6 noon 13 May 7

Connected with above vide Vol. 1703 Fol. 37

REGISTRAR OF TITLES

FULLY CANCELLED

a No. 17923

# Certificate of Title.

VOL: S 1441 FOL: 181

11441181

(C)

QUEENSLAND.

No. 255691

REFERENCE TO PREVIOUS
VOL. S 196/927/1367 FOLIO S 143/35/105

REGISTER BOOK, VOL. 1441 FOLIO 181

WAR SERVICE HOMES COMMISSIONER

of _____ pursuant to Memorandum of Conveyance No. 756832 produced the twentieth day of December 1919, registered the twenty ninth day of January 1920, is now seized _____ of an Estate in Fee-simple, subject nevertheless to such encumbrances, liens, and interests as are by memorandum notified hereon, in all that piece of Land situated in the County of Stanley Parish of Bulimba containing forty eight acres three roods five perches and nine tenths of a perch

more or less, as shown on the Plan hereon, and therein edged red, Being subdivision 1 of portions 102 and 102A and subdivision 37 and 38 of portion 101 on Plans Cat. Nos. B15 - 520 and 700 deposited in the office of the Registrar of Titles Brisbane

which said piece of Land is part of the portions marked 102, 102A and 101 delineated in the Public Map of the said parish deposited in the Office of the Surveyor-General, originally granted by Deeds of Grant No.s (Por.102 and 102A) 58/154 and 24383 to Thomas Blacket Stephens (Por.101) 4851 to James Toohey

**Saving Always** to the Crown all the rights and interests reserved to it by the said Deeds of Grant.

IN WITNESS whereof, I have hereunto signed my name and affixed my seal, this Twelfth day of February One thousand nine hundred and twenty

Signed, Sealed, and Delivered, the 12 day of February 1920 in presence of:

REGISTRAR OF TITLES, QUEENSLAND

REGISTRAR OF TITLES.

No. A 8000 TRANSFER of 9 7/10 perchs Resub A of Sub 1 of Por. 102 to Brisbane City Council Produced 16 Nov 1928 at 10.22 am Registered 21 Jan 1929. Cancelled as above vide Vol. 1760 Fol. 227

REGISTRAR OF TITLES.

No. A 6047 Part of the within land has been dedicated for road purposes under Plan Cat. No. A 6047. Produced 11 July 1928 at 3.0 pm Registered 2 Jan 1929.

REGISTRAR OF TITLES.

No. A 354009 TRANSFER of 26 56/100 perchs Resub 112 to Leslie George Blank Produced 14 Dec 1937 at 11.54 am Registered 20 Dec 1937. Cancelled as above vide Vol. 3016 Fol. 174

REGISTRAR OF TITLES.

Rd/Ded A 1-9-28.

Rose A 6047 08 1.9.28 withdrawn 15-11-28

Plan A 760H-09

res A

Lfr A 354009 K-112

Scale, chains per inch.

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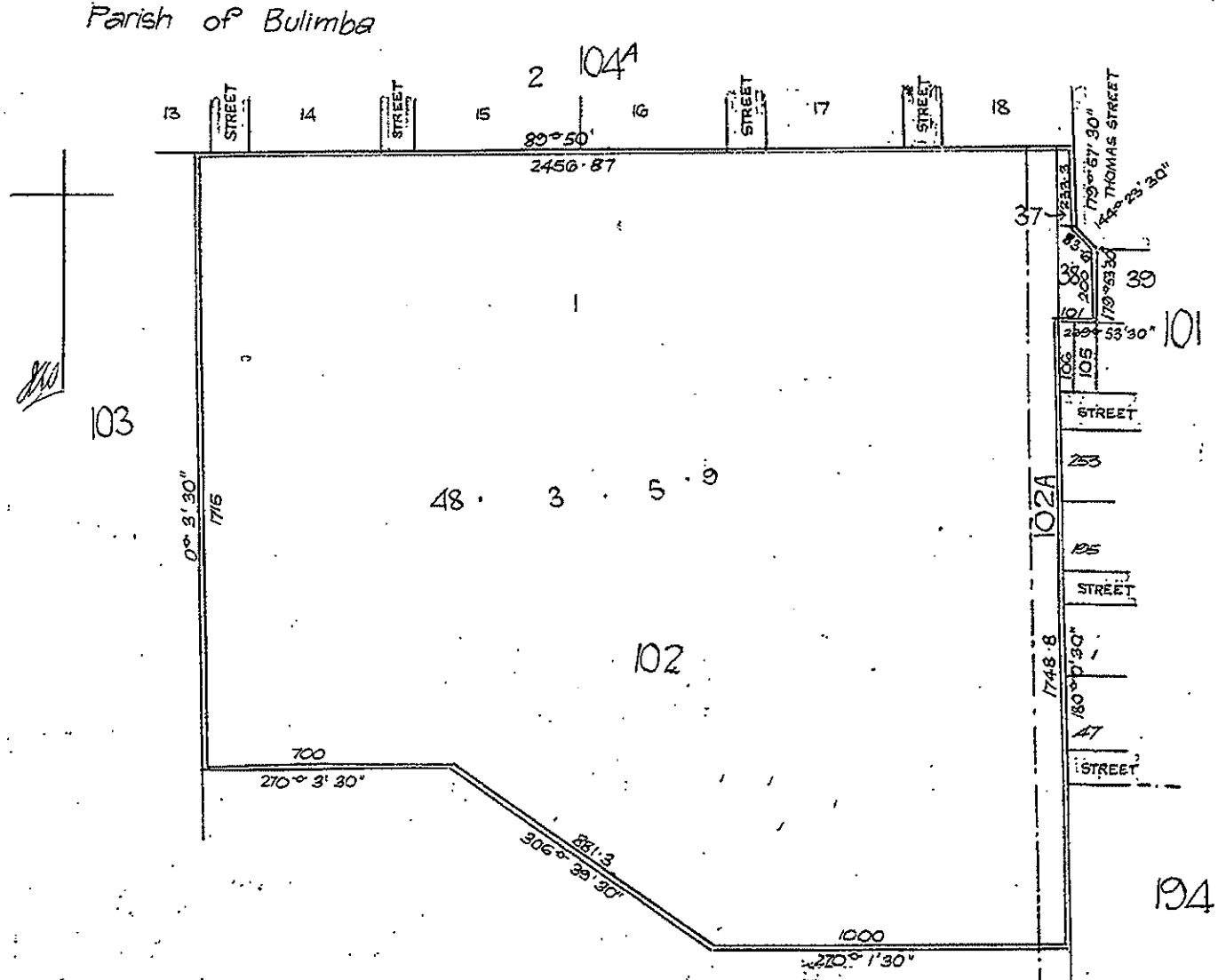
Parish of Bulimba




194

Scale - 4 chains per inch.

No. A4224436 TRANSFER of 25 5/10 pchs Resub 132 of Sub 1 of Por 102 to Frank Gordon Irving and Ethna Joan Agnes Mary Irving Produced 5 Oct 1939 at 9.58 am registered 2 Oct 1939
Cancelled as above vide Vol. 2087 Fol. 72
John R. W. Stric
REGISTRAR OF TITLES.

ABEYANCE
No. A493760 1941

No. A493760 TRANSFER of 16 acs 1 rd 20 6/10 pchs to Subs 1 to 108 to The Commonwealth of Australia Produced 16 Sept 1941 at 2.47 pm registered 25 Sept 1941
Cancelled as above vide Vol. 2160 Fol. 95, 96, 97.
Acting REGISTRAR OF TITLES.

No. A518738 TRANSFER of 26 22/100 pchs Res 129 of Sub 1 of Por 102 A to Frank William Ballard Produced 10 July 1942 at 2.24 pm registered 14 July 1942
Cancelled as above vide Vol. 2182 Fol. 77
REGISTRAR OF TITLES.

No. A602634 TRANSFER of 29 7/10 pchs Resub 15 of Sub 1 of Por 102 to John James Canning Produced 11 Apr 1945 at 2.24 pm registered 21 June 1945
Cancelled as above vide Vol. 2247 Fol. 101
REGISTRAR OF TITLES.

A4224436
R132

A493760
R20/54
55/83
84/108

A518738
R129
(Bpm A518739)
Con
A602634
Bp 015
Bpm
(A602635)
Con
A604775
Bp 118
Bpm
(A604776)
Con
A604777
Bp 128
Bpm
(A604778)
Con
A606884
Bp 109
B1X1
(A606885)
Con A615358
Bp 133/5

No. A604775 TRANSFER of 25 24/100 pchs Resub 118 of Sub 1 of Por 102 to Charles Kelso Graham Produced 20 May 1945 at 2.10 pm registered 21 June 1945
Cancelled as above vide Vol. 2247 Fol. 102
REGISTRAR OF TITLES.

No. A604777 TRANSFER of 25 6/10 pchs Resub 128 of Sub 1 of Por 102 and 102A to Jeffery Stubbs Produced 20 May 1945 at 2.10 pm registered 21 June 1945
Cancelled as above vide Vol. 2247 Fol. 103
REGISTRAR OF TITLES.

No. A606884 TRANSFER of 25 8/100 pchs Resub 109 of Sub 1 of Por 102 to Gordon Holloway Adie Produced 22 May 1945 at 3.30 pm registered 21 June 1945
Cancelled as above vide Vol. 2247 Fol. 104
REGISTRAR OF TITLES.

No. A615358 TRANSFER of 1 rd 36 4/100 pchs Resub 123, 124 and 125 of Sub 1 of Por 102 and 102A to The Commonwealth of Australia Produced 30 July 1945 at 3.44 pm registered 14 Sep 1945
Cancelled as above vide Vol. 2255 Fol. 73
REGISTRAR OF TITLES.

No. A627792 TRANSFER of 25 1/10 pchs Resub 11 of Sub 1 of Por 102 to George Lucas Produced 2 Nov 1945 at 2.4 pm registered 7 Jan 1946
Cancelled as above vide Vol. 2266 Fol. 146
REGISTRAR OF TITLES.

Annexed to Certificate of Title No 25569 Vol 1441 Folio 181 this 22 day of Feb 1946 for the purpose of recording memorials

REGISTRAR OF TITLES

No A637967 TRANSFER of 26 5/10 pchs Resub 114 of Sub 1 of Por 102A to John Henry Richardson Produced 29 Jan 1946 at 10 o'clock registered 22 Feb 1946
Cancelled as above vide Vol 2372 Fol 93
REGISTRAR OF TITLES

No A931506 TRANSFER of 29 73/100 pchs Resub 12 of Sub 1 of Por 102 — to — Charles Joffre Peck and Phyllis Peck Produced 10 May 1950 at 11 o'clock registered 25 May 1950
Cancelled as above vide 2533 Fol 18
REGISTRAR OF TITLES

No A653426 TRANSFER of 26 78/100 pchs Resub 130 of Sub 1 of Por 102A — to — Percy William Chanter Produced 1 May 1946 at 9.45 a.m. registered 14 May 1946
Cancelled as above vide V 2283 Fol 167
REGISTRAR OF TITLES

No B15640 TRANSFER of 26 34/100 pchs Resub 122 to Charles Maurice Penny and Valmae May Penny Produced 17 Apr 1951 at 9.20 a.m., registered 3 May 1951
Cancelled as above vide Vol 2610 Fol 200
REGISTRAR OF TITLES

No A659026 TRANSFER of 25 56/100 pchs Res 120 — to — Arthur James Hurst Produced 5 June 1946 at 2.15 p.m. registered 25 June 1946
Cancelled as above vide V 2188 Fol 223
REGISTRAR OF TITLES

No B26074 TRANSFER of 25 6/10 pchs Resub 116 — to — Colin James Hoy and Esther Hilling Hoy Produced 31 May 1951 at 9.20 a.m., registered 13 July 1951
Cancelled as above vide Vol 2622 Fol 7
REGISTRAR OF TITLES

No A780383 TRANSFER of 25 56/100 pchs Resub 119 to Samuel Raymond Ramsden Produced 6 Apr 1948 at 2.20 p.m. registered 6 May 1948
Cancelled as above vide Vol 2402 Fol 41
REGISTRAR OF TITLES

No B28531 TRANSFER of 25 6/10 pchs Resub 131 — to — Roy Gordon Abraham and Joan Grace Abraham Produced 12 June 1951 at 11.20 a.m., registered 6 Aug 1951
Cancelled as above vide Vol 2625 Fol 74
REGISTRAR OF TITLES

No A831982 TRANSFER of 25 28/100 pchs Resub 126 to Raymond Edwin Roberts Produced 27 Jan 1949 at 12.12 p.m. registered 4 Feb 1949
Cancelled as above vide Vol 2524 Fol 208
REGISTRAR OF TITLES

No B24585 TRANSFER of 30 4/100 pchs Resub 18 — to — William Martin Barnes and Grace Muriel Barnes Produced 3 July 1951 at 9.26 a.m., registered 6 Aug 1951
Cancelled as above vide Vol 2625 Fol 73
REGISTRAR OF TITLES

No A944422 TRANSFER of 10 acs 15 39/100 pchs Resub 2 and 134 to 173 — to — Repatriation Commission Produced 16 Feb 1950 at 9.30 a.m. registered 25 May 1950
Cancelled as above vide No 2534 Fol 247 to 250
REGISTRAR OF TITLES

No B49664 TRANSFER of 29 82/100 pchs Resub — to — Henry Francis and Dorothy Francis Produced 3 Sep 1951 at 9.30 a.m., registered 27 Sep 1951
Cancelled as above vide Vol 2640 Fol 101
REGISTRAR OF TITLES

No A925148 TRANSFER of 30 2/100 pchs Resub 14 of Sub 1 — to — Ronald William Joseph Salmon and Valma Mavis Salmon Produced 13 Apr 1950 at 9.10 a.m. registered 25 May 1950
Cancelled as above vide No 2533 Fol 17
REGISTRAR OF TITLES

No. B63290 TRANSFER of 25 28/100 perchs result 133
— to — Stanley Keith Nelms
and Edna May Nelms Produced
26 Oct 1951 at 9.20 a.m., registered 13 Nov 1951
Cancelled as above vide Vol. 2649 Fol. 232
REGISTRAR OF TITLES

No. B832224 TRANSFER of 26 7/10 perchs. Result 1
— to — Harold John Alfred Wright
and Pauline Ruby Wright Produced
1 Feb 1952 at 3.10 p.m., registered 18 Feb 1952
Cancelled as above vide Vol. 2666 Fol. 172
REGISTRAR OF TITLES

No. B88621 TRANSFER of 25 6/10 perchs. Result 110
— to — Muriel Grace Bentfield
Produced
5 Mar 1952 at 9.20 a.m., registered 12 Mar 1952
Cancelled as above vide Vol. 2671 Fol. 184
REGISTRAR OF TITLES

No. B91043 TRANSFER of 30 53/100 Result 5
Colin Valentine Enders
Produced
17 Mar 1952 at 12.4 p.m., registered 28 Mar 1952
Cancelled as above vide Vol. 2674 Fol. 25
REGISTRAR OF TITLES

No. B97572 TRANSFER of 1 rd 5 6/10 perchs Result
10 — to — Henry Ernest Giesemann
and Laura Frances Giesemann Produced
17 Apr 1952 at 11.10 a.m., registered 4 June 1952
Cancelled as above vide Vol. 2688 Fol. 137
REGISTRAR OF TITLES

No. B89205 TRANSFER of 27 6/10 perchs Result 3
— to — Terence Wilfred Tuttle and
Mollie Elva Tuttle Produced
7 Mar 1952 at 9.20 a.m., registered 29 July 1952
Cancelled as above vide Vol. 2699 Fol. 6
REGISTRAR OF TITLES

No. B119818 TRANSFER of 29 36/100 perchs Result 19
— to — George Henry Pearce
Produced
1 Aug 1952 at 11.0 a.m., registered 21 Aug 1952
Cancelled as above vide Vol. 2704 Fol. 25
REGISTRAR OF TITLES

No. B119034 TRANSFER of 27 55/100 perchs Result 1
— to — Reginald Arthur Thomas Pickford
and Emilie Pickford Produced
10 Dec 1952 at 11.20 a.m., registered 30 Dec 1952
Cancelled as above vide Vol. 2730 Fol. 11
REGISTRAR OF TITLES

No. B114022 TRANSFER of 32 26/100 perchs Result 113
— to — Michael William Ryan
and Elizabeth Ryan Produced
12 Dec 1952 at 11.40 a.m., registered 16 Jan 1953
Cancelled as above vide Vol. ____ Fol. ____
REGISTRAR OF TITLES

No. B161499 TRANSFER of 20 56/100 perchs Result 8
— to — Colin Geoffrey Richard Greenelaw
Produced
6 March 1953 at 10.30 a.m., registered 27 March 1953
Cancelled as above vide Vol. 2746 Fol. 34
REGISTRAR OF TITLES

Annexed to Certificate of Title No. 255691. Vol. 1441 Folio 181 this 22 day of July 1953 for the purpose of recording memorials

REGISTRAR OF TITLES

No. B189092 TRANSFER of 30 7/100 pchs. Resub 13 — to Henry George Curtain and Mary Mitchell Curtain Produced 30 June 1953 at 3.30 p.m., registered 22 July 1953
Cancelled as above vide Vol. 2768 Fol. 142

REGISTRAR OF TITLES

Con. B33006 w/d 10/4/55 now Con. S11 abey 15.4.55
Mtge. B330068 w/d 10/6/55 now Mtge. B35121

THE DESCRIPTION OF RESUB 6 OF 1 THE WITHIN LAND IS CONVERTED TO LOT(S) 6
ON REGISTERED PLAN No. 46047
17 APR 1986
REGISTRAR OF TITLES

No. B351216 TRANSFER of 35 7/10 pchs Resub 11 to Alfred Edward Phillip Gruzer and Kathleen Veronica Gruzer Produced 6 July 1955 at 11.10 a.m., registered 20 July 1955
Cancelled as above vide Vol. 2922 Fol. 214

REGISTRAR OF TITLES

Con. B329353 R115 abey 21.6.55
Mtge. B329354

TRANSFER of Lot 6 on R.P. 46047 to Percy Arthur Roper
No. T125017 PRODUCED 6 May 1987 REGD. R 6 of D1 of P102 RP 46047
Vol. 7048 Fol. 31
3 AUG 1987
REGISTRAR OF TITLES

No. B329353 TRANSFER of 25 7/10 pchs Resub 115 of Sub 1 of Lots 102 and 102 A to Thomas Joseph Donohue and Jean Maud Donohue Produced 23 Mar 1955 at 10.30 a.m., registered 16 Aug 1955
Cancelled as above vide Vol. 2930 Fol. 99

REGISTRAR OF TITLES

Plan CP 46 (6) B518471 S1-2 ~~B7810~~ Con ~~B528940~~ S114 to 116 & 118 Reg ~~B598059~~ R 7, 9, 17, 111, 121-127 abey 19/11/58. JN J125~~0478~~ (Resub 6)

NOTE.
Re Subs 134 to 173 transferred vide Vol 2534 Fols 248/252

No. B444960 TRANSFER of 1 rd 23 7/100 pchs Resub 177 — to Colin Hilton Ford and Evelyn Florence Ford Produced 25 Oct 1956 at 2.50 p.m., registered 12 Nov 1956
Cancelled as above vide Vol. 3015 Fol. 76

REGISTRAR OF TITLES

Re Subs 121 See Vol 3201 Fol 14

No. B528940 TRANSFER of 1 ac 1 rd 37 3/100 pchs Resubs 174 to 176 and 178 to Paul Arthur Robertson Produced 5 Dec 1957 at 4.13 p.m., registered 2 Jan 1958
Cancelled as above vide Vol. 3094 Fol. 152

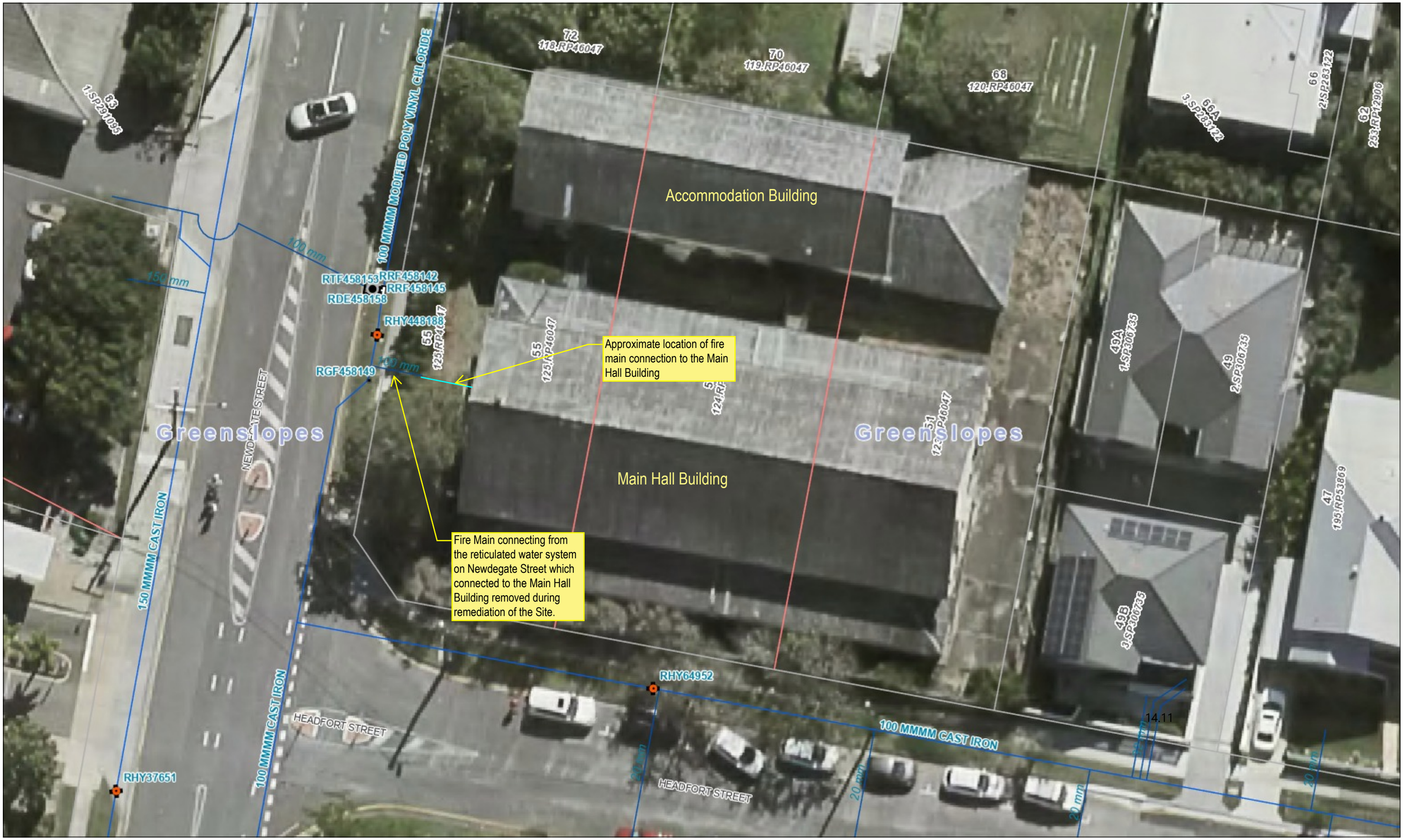
REGISTRAR OF TITLES

NOTE
It appears that Resub 6 is still in this deed.

No. B798259 REQUEST to issue Certificate of Title for 1 ac 0 rds 16 5/10 pchs Resub 7, 9, 17, 111, 127 and A
Produced 13 Oct 1958 at 9.15 a.m., registered 4 Feb 1959
Cancelled as above vide Vol. 3201 Fol. 14-19

R M Miller
ACTING REGISTRAR OF TITLES

# K.15 BUILDING SERVICES

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Projection:
Web Mercator Auxiliary Sphere

Notes:

N

BRISBANE CITY

*Dedicated to a better Brisbane*

# Reticulated Potable Water

13.0 0 6.0 9.4 13.0

Metres

Scale: 1: 250

## Legend

Water Device - All Other Assets
- PRESSURE GAUGE - OFFLINE
- PIGGING POINT
- TAPPING BAND
- RESERVOIR INLET
- <all other values>
- HEADWALL
- PILLAR HYDRANT
- Service Valve, OPEN
- QUU - NON POT
- PRIV - OFFLINE
- PRIVATE

Water Sampling Point
- BOOSTER PUMP - OFFLINE
- Water - Model Link

Water Service

Sealed Plan

- FLOW METER
- LEVEL SENSOR - OFFLINE
- END CAP
- TAPPING
- RESERVOIR OUTLET

Water Structures
- PIER
- INGROUND HYDRANT

Water Network Structure - Reser
- SEQ - NON POT

Water Network Structure Bounda
- QUU - OFFLINE

Water Pumps
- BORE PUMP - OFFLINE
- Raw Water Main
- SERVICE

Parcel

- PRESSURE GAUGE
- <all other values>
- CROSS
- REDUCER
- SCOUR OUTLET
- ANCHOR BLOCK
- <all other values>
- <all other values>
- QUU
- PRIVATE - NON POT

Water Pump Stations
- SEQWATER - OFFLINE
- BOOSTER PUMP
- LIFT PUMP - OFFLINE
- Reticulation Main
- MODEL LINK

Parcel - Outside Brisbane

- LEVEL SENSOR

Water Fitting
- JOINT
- WYE
- CHEMICAL INJECTION POINT
- PIPE BRIDGE

Water Chamber

Water Service Valve
- SEQWATER
- QUU - OFFLINE
- QUU
- PRIVATE - OFFLINE
- BORE PUMP

Water Vertical Pressure Main
- Trunk Main
- COMMON SERVICE

- FLOW METER - OFFLINE
- BEND
- GIBAULT JOINT
- TEE
- SAMPLING STATION
- CONCRETE STOP

Water Hydrant
- Service Valve, CLOSED
- PRIVATE
- SEQ - OFFLINE
- SEQWATER
- <all other values>
- LIFT PUMP

Water Pressure Main - by Type
- Scour Main

Property Holding

Sewer pipe connecting to the trunk main on Newdegate Street was capped at the site boundary.

Sewer pipe connecting from the Rising Main to the trunk main was below the materials requiring remediation and therefore not intersected during remediation. The location of the Rising Main is shown in Figure 12, Appendix A.

Accommodation Building

Main Hall Building

Greenslopes

Greenslopes

NEWDEGATE STREET

HEADFORT STREET

HEADFORT STREET

MH281008

MH164692

LS285613

LS285614

LS168217

LS168221

LS168218

PC305749

PC769253

PC305740

Drainage Plan No: 358590

Drainage Plan No: 29300

Drainage Plan No: 364729

Drainage Plan No: 364730

Drainage Plan No: 51163

Drainage Plan No: 51188

[redacted]

14.11

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Notes:

N

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# Sewer

13.0 0 6.0 9.4 13.0

Metres

Scale: 1: 250

## Legend

- Sewer Chamber
  - INLINE FLUSHING POINT
  - RODDING JOINT
  - WYE
  - INLET
  - PIPE BRIDGE
- Sewer Manholes
  - End
  - SCOUR
  - VACCUM - OFFLINE
  - BUTTERFLY
- Sewer Network Structure -Treatn
  - ODOUR CONTROL
- Sewer Pump Station
- Sewer Vertical Pressure Main
- Sewer Gravity Main - by Type
  - OVERFLOW MAIN
  - RETICULATION MAIN - OFFLINE
  - MODEL LINK
  - LOW PRESSURE MAIN - OFFLINE
- Sewer Drainage Plan Extension
- CHAMBER
- OUTLET
- PROPERTY CONNECTION BOUNDA
- TEE
- OUTLET
- ANCHOR BLOCK
- MANHOLE
- Flume Pit
- VACCUM, AS CONSTRUCTED
- REFLUX - OFFLINE
- SEWER DOOR - OFFLINE
- TREATMENT PLANT, AS CONSTRUC
- WET WELL
- PUMP STATION
- Sewer Service
  - SYPHON
  - MODEL LINK
  - OVERFLOW MAIN - OFFLINE
  - LOW PRESSURE MAIN
  - RISING MAIN - OFFLINE
- Property Holding
- CHAMBER - OFFLINE
- VACUUM LIFT
- JUNCTION
- REDUCER
- <all other values>
- HEAD WALL
- MANHOLE - OFFLINE
- Sewer Manhole Stub
  - REFLUX
- Sewer System Valve - by Type
  - GATE - OFFLINE
  - TREATMENT PLANT - OFFLINE
  - STORAGE FACILITY - OFFLINE
  - PUMP STATION - OFFLINE
  - Model Link
  - DISCHARGE
  - SYPHON - OFFLINE
  - MODEL LINK - OFFLINE
  - RISING MAIN
  - VACUUM MAIN - OFFLINE
- Sealed Plan
- Sewer Fitting - Main Fittings
- Sewer Fitting - All Other Fittings
  - END CAP
  - GIBAULT JOINT
- Sewer Structure - by Type
  - PIER
  - <all other values>
- Sewer Control Valve - by Type
  - AIR - OFFLINE
  - SEWER DOOR
  - BUTTERFLY - OFFLINE
- Sewer Network Structure - All Fe
  - WET WELL - OFFLINE
- Sewer Network Structure Bounda
  - Service
  - TRUNK MAIN
  - DISCHARGE - OFFLINE
  - <all other values>
  - VACUUM MAIN
- Sewer Drainage Plan
- Parcel
- END FLUSHING POINT
- JOINT
- BEND
- CROSS
- CONCRETE STOP
- Sewer Support Structure Bounda
- Sewer Manhole -All Other Types
  - AIR
  - SCOUR - OFFLINE
  - GATE
  - <all other values>
  - STORAGE FACILITY
  - ODOUR CONTROL - OFFLINE
- Sewer Vertical Gravity Main
  - <all other values>
  - RETICULATION MAIN
  - TRUNK MAIN - OFFLINE
- Sewer Pressure Main - by Type
  - MODEL LINK - OFFLINE
- Sewer Drainage Plan Joiner
- Parcel - Outside Brisbane

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Notes:

N

BRISBANE CITY

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# Stormwater

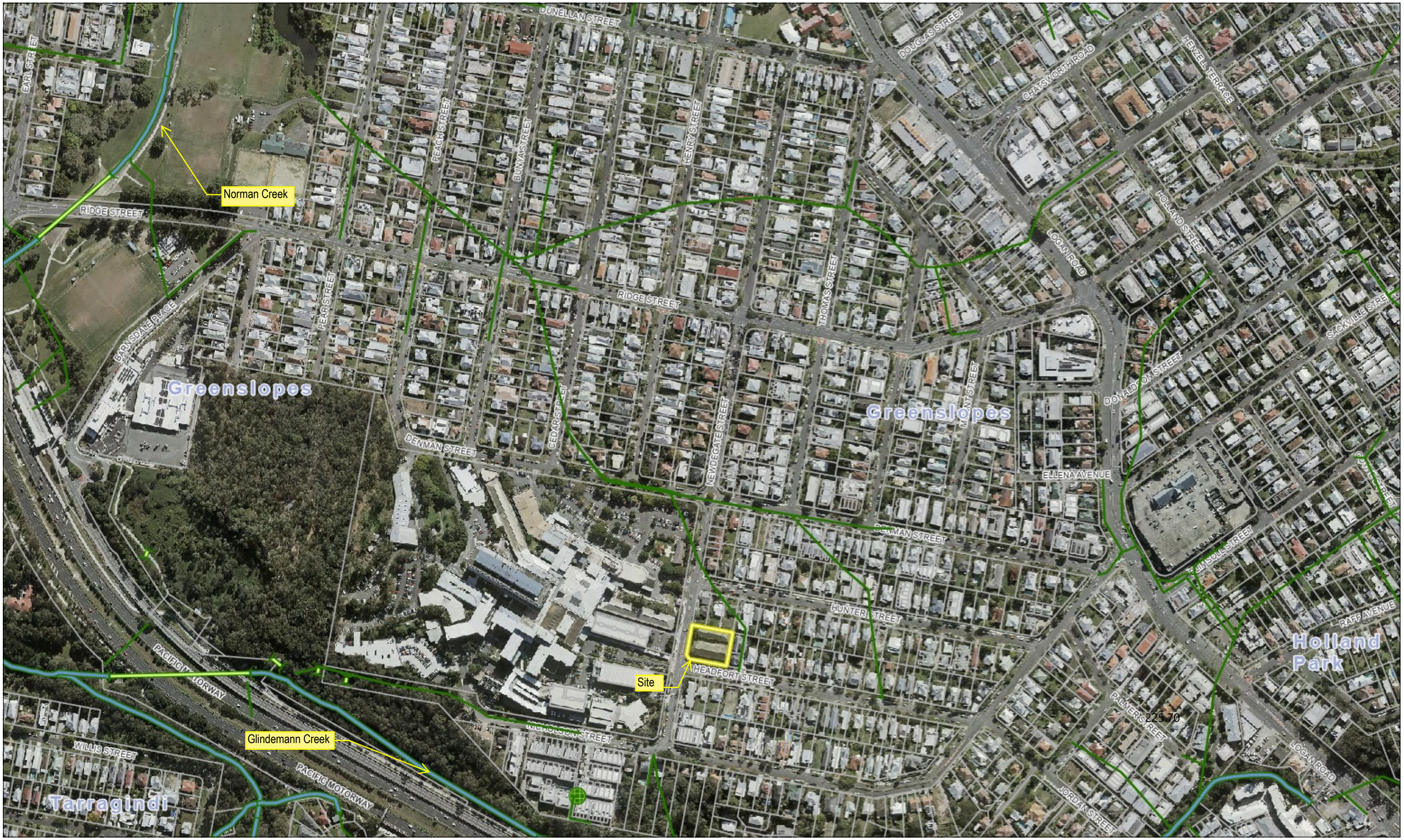
13.0 0 6.0 9.4 13.0

Metres

Scale: 1: 250

## Legend

- Culvert
- Gully
- Foul Water and Roof Water
- Detention Basin
- Parcel - Outside Brisbane
- End Structure
- Junction
- SQID
- Lake
- End cap
- Manhole
- Surface Drain
- Property Holding
- Flood Gate
- Drain
- Waterbody
- Sealed Plan
- Pipe End Outlet
- Gully Connect
- Artesian Well
- Parcel

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Notes:

N

BRISBANE CITY

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# Stormwater

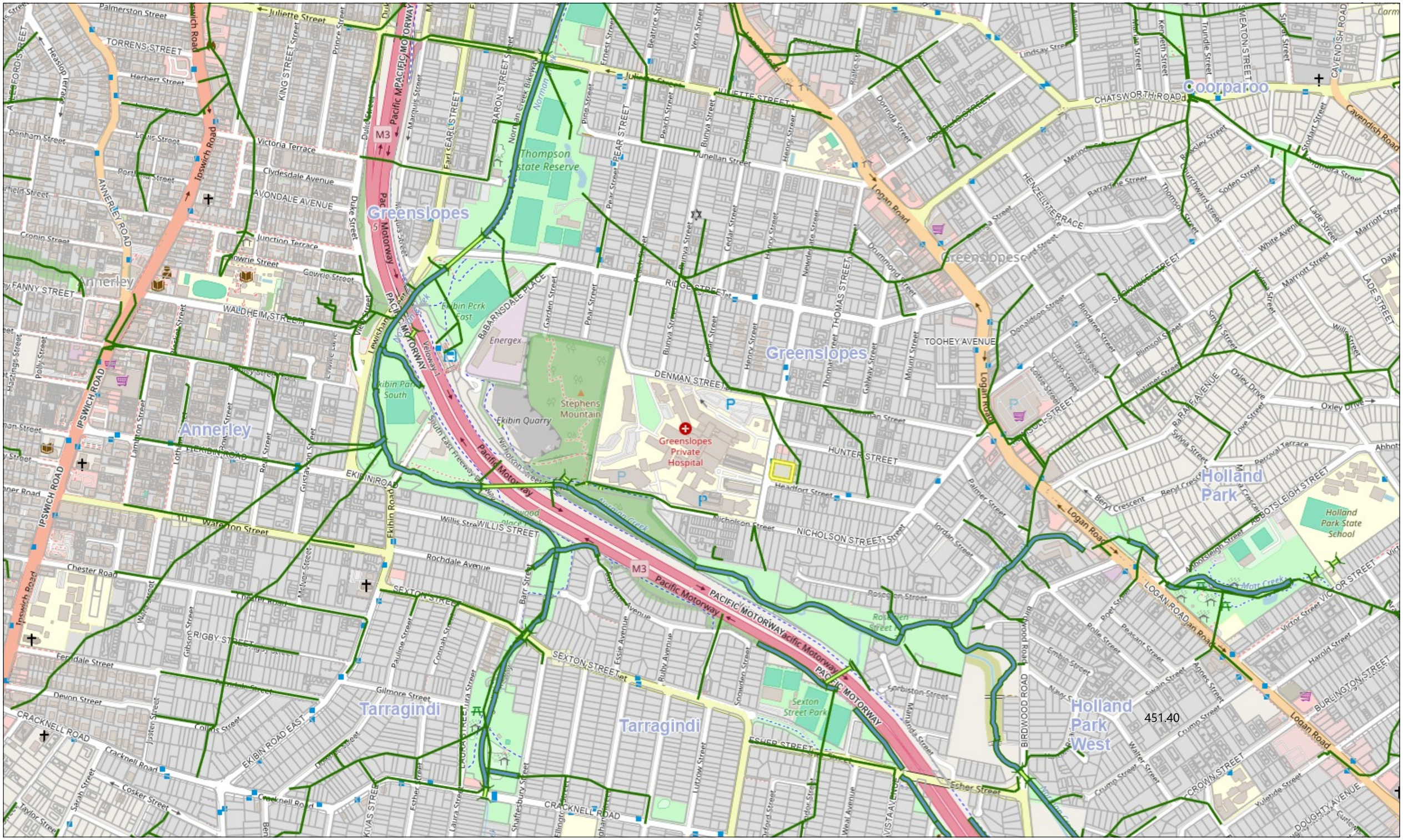
200.0 0 100.0 150.2 200.0

Metres

Scale: 1: 4,005

**Legend**

- Culvert
- Drain
- SQID
- Surface Drain
- Waterbody
- Artesian Well
- Detention Basin
- Lake
- Property Holding
- Sealed Plan
- Parcel - Outside Brisbane

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Notes:

# Stormwater

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BRISBANE CITY

*Dedicated to a better Brisbane*

401.0 0 200.0 300.4 401.0

Metres

Scale: 1: 8,011

**Legend**

- Culvert
- Drain
- Surface Drain
- Waterbody
- Artesian Well
- Detention Basin
- Lake
- Property Holding
- Sealed Plan
- Parcel - Outside Brisbane

# K.16 REGIONAL ECOSYSTEMS

# Regional Ecosystems

A product of Queensland Globe

27°30'29"S 153°2'14"E

27°30'29"S 153°3'13"E

27°31'9"S 153°2'14"E

27°31'9"S 153°3'13"E

Legend located on next page

N

0 100 metres

Scale: 1:5475

Printed at: A3

Print date: 3/5/2024

Not suitable for accurate measurement.

**Projection:** Web Mercator EPSG 102100 (3857)

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# Regional Ecoystems

## Legend

Category A or B area containing endangered

Category A or B area containing of concern

Category A or B area that is least concern

Category C or R area containing endangered

Category C or R area containing of concern

Category C or R area that is of least concern

Water

Non-remnant

Cities and Towns

Green bridges

Vegetation management regional ecosystem - all

- Category A or B area containing endangered
- Category A or B area containing of concern
- Category A or B area that is least concern
- Category C or R area containing endangered
- Category C or R area containing of concern
- Category C or R area that is of least concern
- Water
- Non-remnant

Bridges

Tunnels

Railway

Railway station

Roads and tracks

- Motorway
- Highway
- Secondary
- Connector
- Local
- Restricted Access Road
- Mall
- Busway
- Bikeway
- Restricted Access Bikeway
- Walkway
- Restricted Access Walkway
- Non-vehicular Track
- Track
- Restricted Access Track
- Ferry
- Proposed Thoroughfare

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## K.17 MSES

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# State Planning Policy

**Making or amending a local planning instrument and designating land for community infrastructure**

0 30 60 90 120

Metres

Date: 08/05/2024

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# Legend

**Drawn Polygon Layer**

Override 1

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Cadastre

**MSES - Wildlife habitat (sea turtle nesting areas)**

MSES - Wildlife habitat (sea turtle nesting areas)

**MSES - Regulated vegetation (intersecting a watercourse)**

MSES - Regulated vegetation (intersecting a watercourse)

**MSES - High ecological value waters (watercourse)**

MSES - High ecological value waters (watercourse)

**MSES - Wildlife habitat (endangered or vulnerable)**

MSES - Wildlife habitat (endangered or vulnerable)

**MSES - Wildlife habitat (special least concern animal)**

MSES - Wildlife habitat (special least concern animal)

**MSES - Wildlife habitat (koala habitat areas - core)**

MSES - Wildlife habitat (koala habitat areas - core)

**MSES - Wildlife habitat (koala habitat areas - locally refined)**

MSES - Wildlife habitat (koala habitat areas - locally refined)

**MSES - Strategic environmental areas (designated precinct)**

MSES - Strategic environmental areas (designated precinct)

**MSES - High ecological significance wetlands**

MSES - High ecological significance wetlands

**MSES - High ecological value waters (wetland)**

MSES - High ecological value waters (wetland)

**MSES - Legally secured offset area (offset register)**

MSES - Legally secured offset area (offset register)

**MSES - Legally secured offset area (regulated vegetation offsets)**

MSES - Legally secured offset area (regulated vegetation offsets)

**MSES - Protected areas (estate)**

MSES - Protected areas (estate)

**MSES - Protected areas (special wildlife reserve)**

MSES - Protected areas (special wildlife reserve)

**MSES - Protected areas (nature refuge)**

MSES - Protected areas (nature refuge)

**MSES - Marine park (highly protected areas)**

MSES - Marine park (highly protected areas)

**MSES - Declared fish habitat area**

MSES - Declared fish habitat area

**MSES - Regulated vegetation (category B)**

MSES - Regulated vegetation (category B)

**MSES - Regulated vegetation (category C)**

MSES - Regulated vegetation (category C)

**MSES - Regulated vegetation (category R)**

MSES - Regulated vegetation (category R)

**MSES - Regulated vegetation (essential habitat)**

MSES - Regulated vegetation (essential habitat)

**MSES - Regulated vegetation (wetland)**

MSES - Regulated vegetation (wetland)

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## State Planning Policy

**Making or amending a local planning instrument and designating land for community infrastructure**

Date: 08/05/2024

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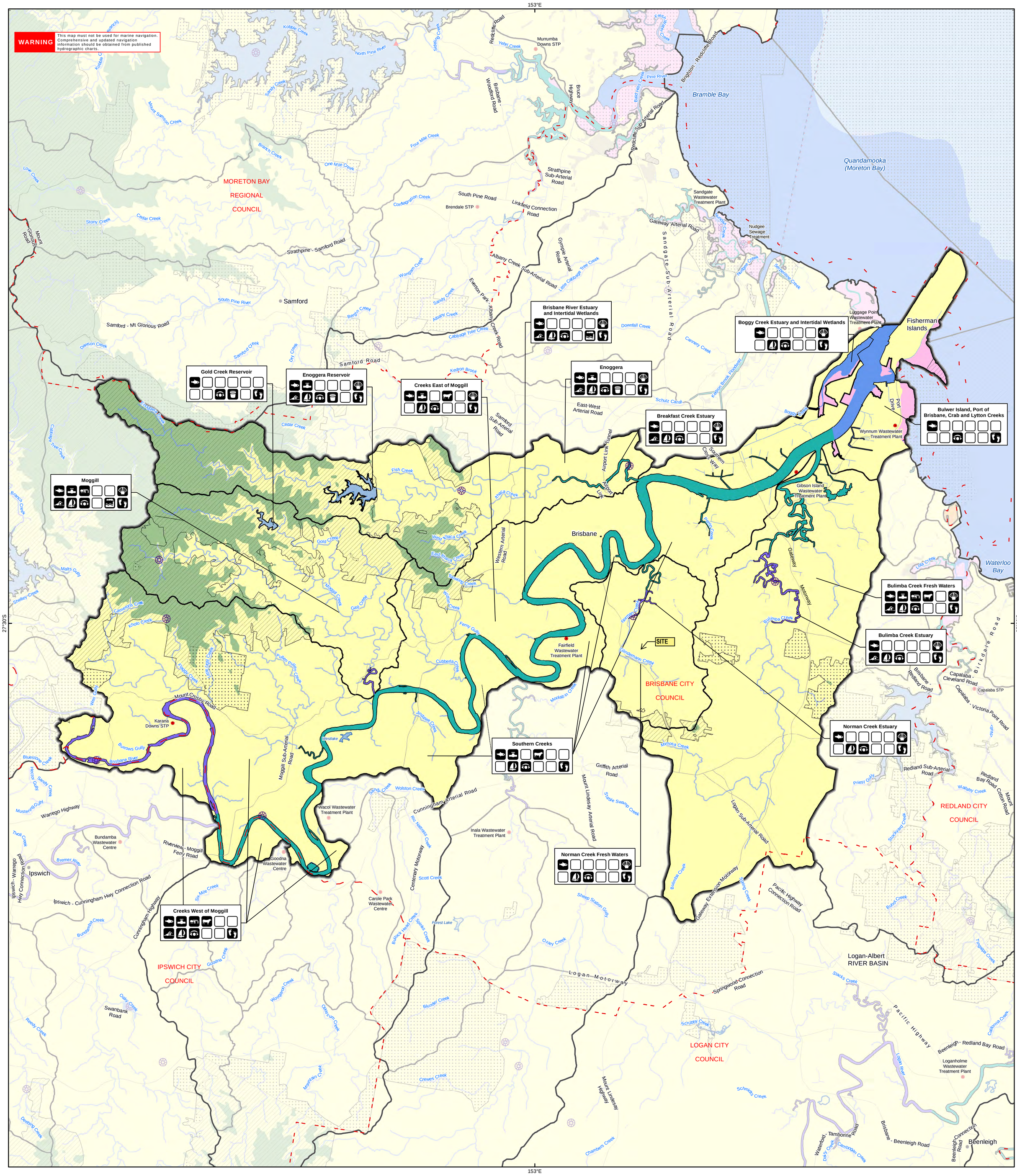
# K.18 ENVIRONMENTAL PROTECTION (WATER) POLICY 2009 SOUTH-EAST QUEENSLAND MAP SERIES, PLAN WQ1431




## Legend

- Town
- Dam or weir
- Sewage/Wastewater Treatment Plant
- Waters of cultural significance
- Road
- Watercourse
- Local Government Area boundary
- Port Limit boundary
- Lake or reservoir
- Environmental value zone boundary
- Boundary of waters covered by the scheduling document

### Water Types

**Fresh waters**

- Upland fresh waters
- Lowland fresh waters
- Wallum fresh waters
- Lake or reservoir

**Marine / Estuarine waters**

- Intertidal wetland
- Lower estuary
- Middle estuary
- Upper estuary

### Mangement Intent

- Slightly disturbed (SD) waters
- High ecological value (HEV) waters
- Waters in the scheduled area that are not shown as high ecological value, slightly disturbed or highly disturbed waters have an aquatic ecosystem management intent of **moderately disturbed (MD)**

### Key to Environmental Values

Aquatic Ecosystems, Irrigation, Farm Supply, Stock Water, Aquaculture, Human Consumer, Primary Recreation, Secondary Recreation, Visual Recreation, Drinking Water, Industrial Use, Cultural & Spiritual Values

### Notes

1. The information provided on this plan is available on Queensland Globe. The GIS datasets are available for download on the Queensland Spatial Catalogue.
2. Plan refers to Queensland waters. Roads and other infrastructure are exempt.
3. Environmental Values and Water Quality Objectives for all constructed lakes are listed in the accompanying schedule document.
4. Culturally significant waters include all watercourses and waterholes associated with the waterway. These sites are mapped with assistance from First Nations people.
5. Reference should be made to the Queensland Wetlands Program. The Wetland*Info* website provides a full coverage of wetlands.
6. Reference should be made to Matters of State Environmental Significance (MSES).
7. Water use restrictions apply in or near SEQwater storages (dams, weirs), as advised on the SEQwater website. Refer to council websites for facilities managed by councils.

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# WQ1431 - Brisbane River Estuary

## Part of Basin 143

## Environmental Protection (Water and Wetland Biodiversity) Policy 2019
## South-east Queensland Map Series

This plan forms part of the Brisbane River Estuary
Environmental Values and Water Quality Objectives scheduling document,
prepared pursuant to the *Environmental Protection (Water and Wetland Biodiversity) Policy 2019*.

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Prepared on: 22 August 2022

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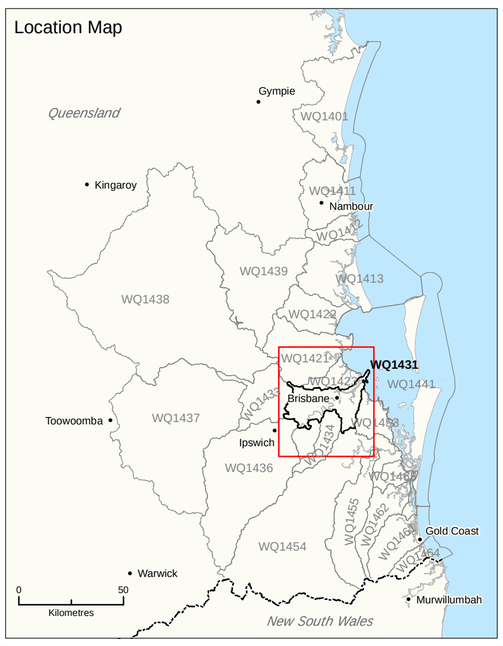
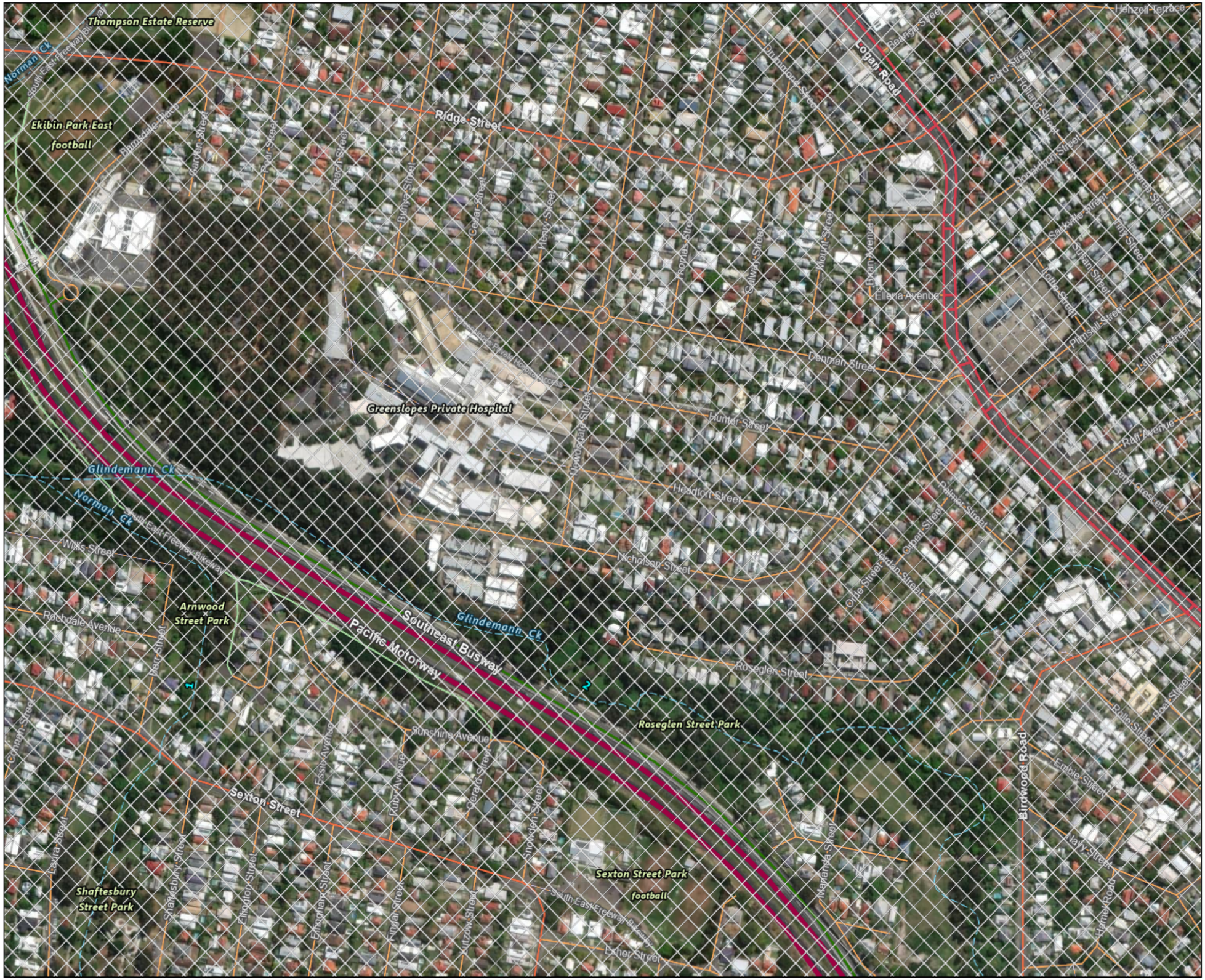


# K.19 BRISBANE RIVER ESTUARY - ENVIRONMENTAL VALUES AND WATER QUALITY OBJECTIVES BASIN NO. 143

# EPP Water Management Intent

A product of Queensland Globe

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# EPP Water Management Intent

## Legend

### Environmental Protection Policy management intent

- Highly disturbed [HD]
- High ecological value [HEV]
- Moderately disturbed [MD]
- Slightly disturbed [SD]

### Coastline

- Coastline

### Lake

- Lake

### Reservoir

- Reservoir

### Canal line

- Canal

### Canal area

- Canal area

### Watercourse line

- Major - perennial
- Major - non perennial
- Minor - perennial
- Minor - non perennial

### Watercourse area

- Watercourse area

### Water area edge

### Watercourse stream order

### Cities and Towns

### Roads and tracks

- Motorway
- Highway
- Secondary
- Connector
- Local
- Restricted Access Road
- Mall
- Busway
- Bikeway
- Restricted Access Bikeway
- Walkway
- Restricted Access Walkway
- Non-vehicular Track
- Track
- Restricted Access Track
- Ferry
- Proposed Thoroughfare

### Green bridges

### Bridges

### Tunnels

### Railway

### Railway station

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Environmental Protection (Water and Wetland Biodiversity) Policy 2019

# Brisbane River Estuary Environmental Values and Water Quality Objectives

Part of Basin 143

Queensland Government

Prepared by: Environmental Policy and Planning Division, Department of Environment and Science

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June 2022

# Main parts of this document and what they contain

**Introduction**
(section 1)

- Waters covered by this document
- Key terms/how to use document
- Links to water quality plans (maps)
- Mapping/water type information
- Further contact details
- Amendment provisions

**Environmental values**
(EVs—section 2)

- Source of EVs for this document
- Any applicable management goals to support EVs
- Table(s) of EVs by waterway
  - aquatic ecosystem
  - human use

**Water quality objectives**
(WQOs—sections 3, 4)

- Guidance on use
- WQOs in this document, for
  - aquatic ecosystem EV
  - human use EVs
- Vegetation management and planning provisions

**Ways to improve water quality**
(section 5)

- List of sources relevant in considering ways to improve water quality

**Dictionary**
(section 6)

- Definitions of key terms including a table of all environmental values

**Accompanying water quality plans** (maps)

- Accompanying maps that show water types, levels of protection and other information contained in this document

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# 1 Introduction

This document is made pursuant to the provisions of the Environmental Protection (Water and Wetland Biodiversity) Policy 2019 (EPP [Water and Wetland Biodiversity]), which is subordinate legislation under the *Environmental Protection Act 1994*. The EPP (Water and Wetland Biodiversity) provides a framework for:

- identifying environmental values (EVs) for Queensland waters and wetlands
- identifying the management intent for waters
- identifying management goals for waters
- stating the water quality objectives (WQOs) for different water types to protect or enhance the identified EVs for waters (noting that WQOs are long-term goals for receiving waters, not individual point source emission objectives.)
- including the identified EVs, management intent and WQOs for waters under Schedule 1 of the EPP (Water and Wetland Biodiversity).

This document contains EVs and WQOs for surface fresh and estuarine waters in the Brisbane River Estuary Basin and is listed under schedule 1 of the EPP (Water and Wetland Biodiversity). For information on wetland EVs, refer to section 7 of the EPP (Water and Wetland Biodiversity).

The accompanying plan (WQ1431) identifies the EVs and management intent for the different water types in the Brisbane River Estuary Basin (e.g. fresh and estuarine waters etc.).

## 1.1 Purpose

The purpose of this document and the accompanying plan (WQ1431) is to identify locally relevant environmental values (EVs), and water quality objectives (WQOs) for surface fresh and estuarine waters in the Brisbane River Estuary Basin, pursuant to section 12 of the EPP (Water and Wetland Biodiversity) for inclusion in Schedule 1 of the EPP (Water and Wetland Biodiversity). EVs and WQOs are used to help set development conditions, influence local government planning schemes, and underpin report card grades for ecosystem health monitoring programs. Aquatic ecosystem water quality objectives have, where possible, been established using local data, and present a truer picture of the physico-chemical water quality of local waterways than national and state water quality guidelines. The adoption of local water quality monitoring data in deriving WQOs ensures the values the community holds for its waterways can be maintained and improved.

## 1.2 Queensland waters to which this document applies

This document applies to surface fresh and estuarine waters draining the Brisbane River Estuary basin (Basin 143[1]), including all creeks of the Brisbane River estuary, other than Oxley Creek, as indicated in the accompanying plan (WQ1431).

[1] Australia's River Basins 1997—Product User Guide. Published by Geoscience Australia. Canberra, ACT (3rd edition, 2004).

## 1.3 Guidance on using this document

### 1.3.1 Key terms (refer to EPP (Water and Wetland Biodiversity) and dictionary for additional terms)

**ADWG** means the Australian Drinking Water Guidelines (2011, as amended), published on the National Health and Medical Research Council (NHMRC) website.

**ANZG** (previously ANZECC) means the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2018, as amended), published on the Australian Government's Water Quality Australia website.

**Environmental values (EVs) for water** means the EVs specified in the EVs tables of this document for the corresponding water.
EVs for water are the qualities of water that make it suitable for supporting aquatic ecosystems and human water uses. The EVs need to be protected from the effects of habitat alteration, waste releases, contaminated runoff and changed flows to ensure healthy aquatic ecosystems and waterways that are safe for community use. Particular waters may have different EVs. The range of EVs and the waters to which they can potentially apply are listed below, and further details are provided in the dictionary.

#### List of EVs and potentially applicable waters

| Environmental value (EV) | Potentially applicable to: | |
|---|---|---|
| | Tidal waters | Fresh (non-tidal) waters |
| **Protection of aquatic ecosystems (aquatic ecosystem EV)** | | |
| Protection or enhancement of aquatic ecosystem values, under four possible levels of ecosystem conditions:<br>• high ecological value (effectively unmodified) waters<br>• slightly disturbed waters<br>• moderately disturbed waters<br>• highly disturbed waters.<br>(Suitability for seagrass and wildlife habitat have also been specifically identified for some Queensland waters as a component of this EV). | ✓ | ✓ |
| **EVs other than aquatic ecosystem EV (called human use EVs)** | | |
| Suitability for drinking water supplies | | ✓ |
| Suitability for primary contact recreation (e.g. swimming) | ✓ | ✓ |
| Suitability for secondary contact recreation (e.g. boating) | ✓ | ✓ |
| Suitability for visual (no contact) recreation | ✓ | ✓ |
| Suitability of water for producing or taking aquatic foods (such as fish, shellfish and other plants and animals) that are safe and suitable for human consumption (suitability for oystering has also been specifically identified for some Queensland waters) | ✓ | ✓ |
| Protection of cultural and spiritual values, including traditional owner values of water | ✓ | ✓ |
| Suitability for industrial use (including mining, minerals refining/processing) | ✓ | ✓ |
| Suitability for aquaculture (e.g. red claw, barramundi) | | ✓ |
| Suitability for crop irrigation | | ✓ |
| Suitability for stock watering | | ✓ |
| Suitability for farm supply/use | | |

**Level of protection for a water (aquatic ecosystem EV)** means the level of aquatic ecosystem condition specified for waters in the aquatic ecosystem water quality objectives tables of this document that the corresponding WQOs for that water are intended to achieve (refer to management intent definition below for further information).

**Management goal** means the goal/s stated in Section 2.2 of this document to support the EVs for waters identified in the EVs tables.

**Management intent for a water (aquatic ecosystem EV)** is defined in section 15 of the EPP (Water and Wetland Biodiversity). It is the management intent for the waters that the decision to release waste water or contaminant to waters must ensure that:

- for high ecological value (HEV) waters—the measures for the indicators for all EVs of water are maintained;
- for slightly disturbed (SD) waters—the measures for the slightly modified physical or chemical indicators are progressively improved to achieve the water quality objectives for high ecological value water;
- for moderately disturbed (MD) waters:
  - if the measures for indicators of the EVs achieve the water quality objectives for the water—the measures for the indicators are maintained at levels that achieve the water quality objectives for the water, or
  - if the measures for indicators of the EVs do not achieve the water quality objectives for the water—the measures for indicators of the EVs are improved to achieve the water quality objectives for the water;
- for highly disturbed (HD) waters—the measures for the indicators of all EVs are progressively improved to achieve the water quality objectives for the water.

**QWQG** means the Queensland Water Quality Guidelines published on the Department's website.

**Water quality guidelines** (defined in the EPP (Water and Wetland Biodiversity)) are numerical concentration levels or statements for indicators that protect a stated environmental value. Under the EVs setting process contained in the EPP (Water and Wetland Biodiversity), water quality guidelines are used as an input to the development of WQOs.

**Water quality indicator (for an EV)** means a property that is able to be measured or decided in a quantitative way. Examples of water quality indicators include physical indicators (e.g. temperature), chemical indicators (e.g. nitrogen, phosphorus, metals), and biological indicators (e.g. macroinvertebrates, seagrass, fish).

**Water quality objectives (WQOs)** means the WQOs specified in tables of this document to protect the corresponding EVs for waters identified in the EVs table.

WQOs are long-term goals for water quality management. They are numerical concentration levels or narrative statements of indicators established for receiving waters to support and protect the stated EVs for those waters. Water quality objectives are not individual point source emission objectives, but the receiving water quality objectives.

WQOs are derived from scientific criteria or water quality guidelines but may be modified by consideration of economic and social impacts of protecting the EVs for the waters.

**Water type** means groupings of waters with similar characteristics, as shown in the accompanying plan. Water types can include fresh waters (lowland, upland, lakes/reservoirs), wetlands and groundwaters, estuarine waters (lower, middle and upper estuaries), intertidal wetlands, tidal canals, constructed estuaries, marinas and boat harbours, and coastal/marine waters (enclosed coastal, open coastal, midshelf, offshore). WQOs applying to different water types are outlined in this document.

### 1.3.2 Use of this document

Section 2 lists the identified EVs for protection for particular waters. The aquatic ecosystem EV is a default applying to all Queensland waters. Reference to tables in sections 3–4 provides the corresponding WQOs to protect the aquatic ecosystem EV, and human use EVs.

Where more than one EV applies to a given water, the adoption of the most stringent WQO for the identified EVs applies to each water quality indicator in order to protect all identified EVs.

This document also refers to a number of guidelines, codes and other reference sources on water quality. In particular, the QWQG provides more detailed information on water types, water quality indicators, derivation of local water quality guidelines, application during flood events, monitoring, and other matters.

## 1.4 Information about mapped attributes and boundaries

This document and the accompanying plans are available from the department's website. Schedule Outlines, EVs, water types and aquatic ecosystem management intent (level of protection) depicted in the accompanying plans are available on Queensland Globe (qldglobe) and the GIS datasets can be downloaded on Queensland Queensland Spatial Catalogue (QSpatial). For further information, email the department at epa.ev@des.qld.gov.au.

## 1.5 Water types and basis for boundaries

### 1.5.1 Water types

Water types are groupings of waters with similar characteristics. Waters in this document have been classified into different water types, as shown in the relevant tables and accompanying plans. The range of applicable water types is listed below (note that not all water types are present in all plans):

- freshwater streams and rivers, including where applicable are split into:
  - upland freshwaters—small upstream streams, moderate - fast flowing with steeper gradients than lowland freshwaters (above 150 metres altitude, or as otherwise defined)
  - lowland freshwaters—larger slow moving freshwater streams and rivers (under 150 metres altitude, or as otherwise defined)
- freshwater lakes/reservoirs
- urban lakes— a constructed lake receiving runoff from urbanised catchment (excluding water treatment ponds and stormwater treatment)
- upper estuary—waters in the upper reaches of estuaries, with limited flushing. This water type is absent from short estuaries, less than 15 kilometres (km) total estuary length
- mid estuary—waters extending the majority of the length of estuaries with a moderate amount of water movement from either freshwater inflow or tidal exchange
- lower estuary/enclosed coastal (LE/EC)—waters occurring at the downstream end of estuaries and including shallow coastal waters in adjacent enclosed bays
- marinas, boat harbours, tidal canals, and constructed estuaries
- wetlands

- open coastal (OC) and other marine waters (e.g. midshelf, offshore)—extending to the seaward limits of Queensland waters.

The water types are based on local water quality studies, mapping and definitional rules contained in the QWQG, and the ANZG. Further detail on water types is contained in these sources.

### 1.5.2 Water type boundaries

The boundaries of different water types have been mapped using a variety of attributes, including for example:

- geographic coordinates
- hydrological basin, catchment or subcatchment boundaries
- surveyed terrestrial boundaries
- altitude
- boundaries based on technical investigations
- highest/lowest astronomical tide
- tidal limiting structure (barrage/weir)
- maritime mapping conventions
- coastline.

### 1.5.3 Environmental value zones

Environmental value zones (EVZ) for waters share the same Environmental Values (EVs). These zones have previously been designated Sub-Catchment boundaries; however, EVZ boundaries do not strictly follow the definition of Sub-Catchment.

## 1.6 Matters for amendment

Amendments of the following type may be made to this schedule 1 document (and accompanying plan) for the purposes of replacement under section 13(2)(b) of the EPP (Water and Wetland Biodiversity):

- changes to EVs
- changes to management goals
- changes to WQOs
- changes to management intent (level of protection) categories
- changes to waterway or water type boundaries/descriptions
- updates to information/data sources, websites and email contact details, agency/departmental names, other institutional names, references.

# 2 Environmental values and management goals

## 2.1 Environmental values

Environmental values (EVs) for water are the qualities of water that make it suitable for supporting aquatic ecosystems and human water uses (refer key terms and dictionary to this document for further details). EVs for waters included in this document are shown in Table 1 and the accompanying plan (WQ1431).

**Table 1 Environmental values: Brisbane River Estuary basin surface fresh and estuarine waters**

| **BRISBANE RIVER ESTUARY BASIN (Refer plan WQ1431)** | **Environmental values[1–5]** | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Aquatic ecosystem** | **Irrigation** | **Farm supply/use** | **Stock water** | **Aquaculture** | **Human consumer [5]** | **Primary recreation [5]** | **Secondary recreation[5]** | **Visual recreation [5]** | **Drinking water [5]** | **Industrial use** | **Cultural and spiritual values** |
| **Environmental Value Zone (listed alphabetically)** | | | | | | | | | | | | |
| Boggy Creek Estuary and Intertidal Wetlands | ✓ | | | | | ✓ | | ✓ | ✓ | | | ✓ |
| Breakfast Creek Estuary | ✓ | | | | | ✓ | ✓ | ✓ | ✓ | | | ✓ |
| Brisbane River Estuary and Intertidal Wetlands | ✓ | | | | | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ |
| Bulimba Creek Estuary | ✓ | | | | | ✓ | ✓ | ✓ | ✓ | | | ✓ |
| Bulimba Creek Fresh Waters | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | | | ✓ |
| Bulwer Island, Port of Brisbane, Crab and Lytton Creeks | ✓ | | | | | | | | ✓ | | | ✓ |
| Creeks East of Moggill | ✓ | ✓ | | ✓ | | ✓ | | ✓ | ✓ | | | ✓ |
| Creeks West of Moggill | ✓ | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | | | ✓ |
| Enoggera | ✓ | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |
| Enoggera Reservoir | ✓ | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |
| Gold Creek Reservoir | ✓ | | | | | | | | ✓ | ✓ | | ✓ |

| BRISBANE RIVER ESTUARY BASIN (Refer plan WQ1431) | Environmental values[1–5] | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Aquatic ecosystem | Irrigation | Farm supply/use | Stock water | Aquaculture | Human consumer [5] | Primary recreation [5] | Secondary recreation[5] | Visual recreation [5] | Drinking water [5] | Industrial use | Cultural and spiritual values |
| Environmental Value Zone (listed alphabetically) | | | | | | | | | | | | |
| Moggill | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ |
| Norman Creek Estuary | ✓ | | | | | ✓ | | ✓ | ✓ | | | ✓ |
| Norman Creek Freshwaters | ✓ | | | | | ✓ | | ✓ | ✓ | | | ✓ |
| Southern Creeks | ✓ | ✓ | | ✓ | | | | ✓ | ✓ | | | ✓ |
| Urban Lakes | ✓ | | | | | | | ✓ | ✓ | | | ✓ |

**Notes:**

1. ✓ means the EV is selected for protection. Blank indicates that the EV is not chosen for protection.
2. Refer to key terms and the dictionary for further explanation of EVs.
3. Refer to sections 3–4 for WQOs applying to the EVs in this table.
4. The selection of recreational and other human use EVs for waters does not mean that these waters are free of dangerous aquatic organisms, for example venomous organisms (e.g. marine stingers including box jellyfish, irukandji jellyfish), crocodiles, and sharks. Direct contact with dangerous aquatic organisms should be avoided. Refer to DES Crocodiles, council, Queensland Health, Beachsafe, marine stingers, and other information sources for further details on swimming safety and information on specific waters. Access restrictions may apply in certain locations (e.g. ports, defence, Traditional Owner lands), or at certain times of the year. Restrictions on certain activities (e.g. fishing, camping) may also apply in particular areas. Check with relevant authorities.
5. The selection of EVs for waters does not mean that these are currently free of toxicants (including bio accumulative toxicants). Information about contaminated land can be accessed by searching the Environmental Management and Contaminated Land Registers.

## 2.2 Management goals to support environmental values

### 2.2.1 Management intent for waters

Under section 15 of the EPP (Water and Wetland Biodiversity) it is the management intent for waters that the decision to release waste water or contaminants to waters must ensure the following:

- for high ecological value (HEV) waters—the measures for the indicators for all EVs of waters are maintained
- for slightly disturbed (SD) waters—the measures for the slightly modified physical or chemical indicators are progressively improved to achieve the water quality objectives for high ecological value water
- for moderately disturbed (MD) waters:
  - if the measures for indicators of the EVs achieve the water quality objectives for the water—the measures for the indicators are maintained at levels that achieve the water quality objectives for the water, or
  - if the measures for indicators of the EVs do not achieve the water quality objectives for the water—the measures for indicators are improved to achieve the water quality objectives for the water
- for highly disturbed (HD) waters—the measures for the indicators of all EVs are progressively improved to achieve the water quality objectives for the water.

Note 1 — refer to accompanying plan for locations of waters and level of protection/management intent

Note 2 — see the Environmental Protection Regulation 2019, section 35 (EP Reg). EVs, WQOs and management intent must be considered when making environment management decisions under the EP Reg.

Note 3 — see the EPP (Water and Wetland Biodiversity), section 15.

Aquatic ecosystem WQOs are provided in section 3 of this document.

### 2.2.2 Management goals for human use environmental values

Management goals for human use EVs are stated below. WQOs to support these goals are stated in section 4 of this document.

#### 2.2.2.1 Irrigation water quality

The management goal for irrigation water is that the quality of water, when used in accordance with the best irrigation and crop management practices and principles of ecologically sustainable development, does not result in crop yield loss or soil degradation (noting that water quality requirements may differ by crop type).

#### 2.2.2.2 Farm supply use

The management goal for farm supply use is that the quality of water is suitable for produce preparation and domestic uses other than drinking. (Drinking and other human uses outlined below.)

#### 2.2.2.3 Stock water quality

The management goal for stock watering is that the quality of water provided to stock does not cause deterioration in stock health or condition (noting that water quality requirements may differ by stock type).

#### 2.2.2.4 Aquaculture

The management goal for aquaculture is that the quality of water provided for aquaculture does not cause deterioration in stocked species health or condition (noting that water quality requirements may differ by species).

#### 2.2.2.5 Human consumer of aquatic foods

The management goal is that the water quality is suitable for producing or taking aquatic foods that are safe and suitable for human consumption.

#### 2.2.2.6 Recreational water quality

The management goal for recreational water quality is to achieve a low risk to human health from water quality threats posed by exposure through ingestion, inhalation or contact during recreational use of water resources.

#### 2.2.2.7 Raw water for drinking water consumption

The management goal is to:

- minimise the risk that the quality of raw water taken for treatment for human consumption results in adverse human health effects
- maintain the palatability rating of water taken for treatment for human consumption at the level of 'good' as set out in the ADWG
- minimise the risk that the quality of raw water taken for treatment for human consumption results in the odour of drinking water being offensive to consumers.

#### 2.2.2.8 Industrial use

The management goal for industrial use is that the quality of water provided to industry is, with an appropriate level of treatment, suitable for industrial use. Industries usually treat water supplies to meet their specific needs, accordingly no WQOs are specified in this document for industrial use.

#### 2.2.2.9 Cultural and spiritual values and uses of water

The management goal is that water is suitable to support identified cultural and spiritual values of waters, including those of Aboriginal people or Torres Strait Islanders. Management goals and objectives specified for aquatic ecosystems and other human water uses (including recreation, human consumption of aquatic foods, and drinking water) will assist in supporting some aspects of cultural and spiritual values of water.

# 3 Water quality objectives to protect aquatic ecosystem environmental values

Water quality objectives (WQOs) are long-term goals for water quality management. They are numerical concentration levels or narrative statements of indicators established for receiving waters to support and protect the designated EVs for those waters. Water quality objectives are not individual point source emission objectives, but the receiving water quality objectives.

Where more than one EV applies to a given water (e.g. aquatic ecosystem EV and drinking water EV), the most stringent WQO for each water quality indicator applies, which will then protect all identified EVs.

## 3.1 Aquatic ecosystem water quality objectives

This section provides physical, chemical and where available, biological water quality objectives (WQOs) to support and protect the aquatic ecosystem EV. (Human use EVs, including recreation, stock watering etc, are addressed in section 4).

The aquatic ecosystem EV is a default applying to all Queensland waters, and therefore the WQOs for aquatic ecosystems form the minimum WQOs for all waters. Where no human use EVs are identified, the WQOs identified for aquatic ecosystem protection remain applicable.

WQOs for specified indicators (including nutrients, algal, water clarity) are listed in the following table (by water type/catchment, management intent, and flow regime/season where indicated):

- Table 2: Fresh and estuarine waters

Details on management intent are included in the table and notes supporting table. Links to wetland, riparian, and State Planning Policy (state interest – water quality) mechanisms are provided in and after the table.

### 3.1.1 Comparison of test data with WQOs

The following protocols are recommended when comparing fresh, estuarine or coastal/marine water quality (at a 'test' site) with the corresponding aquatic ecosystem water quality objective (WQO). For concentration-based indicators (e.g. nutrients) and turbidity (NTU), the intent is for test site water quality value to be less than or equal to the corresponding WQO. For WQO indicators where a range is specified (e.g. pH, DO), the intent is that the test site water quality median value falls within the specified WQO range. For Secchi and silicate (typically used in estuarine, coastal and marine waters), the intent is for the test site water quality value to be greater than or equal to the stated WQO. Further detail on protocols for assessing test data against WQOs is provided in the QWQG.

For HEV and SD waters:

- For HEV and SD waters, the criterion of no change beyond natural variability is prescribed for biological indicators, physical and chemical stressors, sediments, habitat, and flow.
- Where the WQO is expressed as a $20^{th}$–$50^{th}$–$80^{th}$ percentile range of values (e.g. Total N: 65–100–125 µg/L), the $20^{th}$–$50^{th}$–$80^{th}$ percentile distributions of the test data should meet the specified range of values. The sample number is a minimum of 24 test values over the relevant period (12 months if a continuous activity or alternatively a shorter period for activities where discharge occurs for only part of the year).
- Where a single WQO value is provided, the median value of preferably five or more independent samples at a monitoring (test) site should be compared with, and should be less than or equal to, the corresponding aquatic ecosystem WQO (except where otherwise indicated).
- Detailed methods for assessing change and a statistical protocol for assessing medium to long term compliance in HEV waters are included in the Queensland Water Quality Guidelines.

For MD and HD waters:

- The median value (e.g. concentration) of preferably five or more independent samples at a monitoring (test) site should be compared with, and should be less than or equal to, the corresponding aquatic ecosystem WQO (except where otherwise indicated).
- For DO and pH, the median value of preferably five or more independent samples at a monitoring (test) site is compared with, and should fall within, the specified percentile range.
- Refer to the Queensland Water Quality Guidelines for further information.

For toxicants in water: unless otherwise stated, WQOs for toxicants are derived from the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZG, 2018) default guideline values for the corresponding level of species protection. The ANZG recommends that the $95^{th}$ percentile of test data is compared against the default guideline value. As the proportion of test values that is required to be less than the default guideline value is high, the ANZG indicates that a single observation greater than the default guideline value is considered an exceedance.

For comparisons of toxicants in sediments, refer to ANZG.

Further information: Refer to the QWQG, the Queensland Monitoring and Sampling Manual (2018), and ANZG for more details.

**Table 2 Aquatic ecosystem water quality objectives – Upland and lowland fresh waters, and estuarine waters**

| Environmental Value Zone/ Water Type | Management intent /Level of protection | BRISBANE RIVER ESTUARY BASIN (refer plan WQ1411) [1–5] Aquatic ecosystem water quality objectives | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Note:** WQOs for indicators are shown as a range of 20th, 50th and 80th percentiles to be maintained or achieved (e.g. 3–4–5), lower and upper limits (e.g. pH: 7.2–8.2), or as a single value for which a median of test data should be equal to or less than (e.g. 15). Refer to Section 3.1.1 for more details on how to apply WQOs. HEV – high ecological value; SD – slightly disturbed; MD – moderately disturbed. ID – insufficient data. NA – not applicable | | | | | | | | | | | |
| | | **Ammonia** (µg/L) | **Oxidised Nitrogen** (µg/L) | **Total Nitrogen** (µg/L) | **Filterable Reactive Phosphorus** (µg/L) | **Total Phosphorus** (µg/L) | **Chlorophyll-a** (µg/L) | **Dissolved Oxygen[2]** (% saturation) | **Turbidity** (NTU) | **Secchi** (m) | **Total Suspended Solids[3]** (mg/L) | **pH** | **Conductivity** (µS/cm) |
| **BRISBANE RIVER ESTUARY – upland fresh waters** | | | | | | | | | | | | | |
| **All Upland** | **HEV/SD** | **Low flow**<br><0.13 $m^3/s$ (cumecs) Gauge 143028A<br><0.11 $m^3/s$ (cumecs) Gauge 143032A<br><1.53 $m^3/s$ (cumecs) Gauge 143033A | | | | | | | | | | | |
| | | 5-9-13 | 4-11-25 | 220-280-370 | 4-7-11 | 12-18-30 | 1-1-4 | 90-100-110 | 1-3-6 | NA | 1-3-8 | 7.1-7.3-7.5 | 390-470-550 |
| | | **High flow**<br>≥0.13 $m^3/s$ (cumecs) Gauge 143028A<br>≥0.11 $m^3/s$ (cumecs) Gauge 143032A<br>≥1.53 $m^3/s$ (cumecs) Gauge 143033A | | | | | | | | | | | |
| | | 3-6-19 | 25-140-490 | 470-630-990 | 10-14-20 | 35-50-65 | 1-1-15 | 90-100-110 | 14-30-50 | NA | 2-6-19 | 7.1-7.4-7.6 | 200-260-450 |

| Environmental Value Zone/ Water Type | Management intent /Level of protection | BRISBANE RIVER ESTUARY BASIN (refer plan WQ1411) [1–5] Aquatic ecosystem water quality objectives | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Note:** WQOs for indicators are shown as a range of 20th, 50th and 80th percentiles to be maintained or achieved (e.g. 3–4–5), lower and upper limits (e.g. pH: 7.2–8.2), or as a single value for which a median of test data should be equal to or less than (e.g. 15). Refer to Section 3.1.1 for more details on how to apply WQOs. HEV – high ecological value; SD – slightly disturbed; MD – moderately disturbed. ID – insufficient data. NA – not applicable | | | | | | | | | | | |
| | | **Ammonia** (µg/L) | **Oxidised Nitrogen** (µg/L) | **Total Nitrogen** (µg/L) | **Filterable Reactive Phosphorus** (µg/L) | **Total Phosphorus** (µg/L) | **Chlorophyll-a** (µg/L) | **Dissolved Oxygen[2]** (% saturation) | **Turbidity** (NTU) | **Secchi** (m) | **Total Suspended Solids[3]** (mg/L) | **pH** | **Conductivity** (µS/cm) |
| **All Upland** | **MD** | **Low flow**<br><0.13 $m^3/s$ (cumecs) Gauge 143028A<br><0.11 $m^3/s$ (cumecs) Gauge 143032A<br><1.53 $m^3/s$ (cumecs) Gauge 143033A | | | | | | | | | | | |
| | | 13 | 25 | 370 | 11 | 30 | 4 | 90 – 110 | 6 | NA | 8 | 6.5 – 8.2 | 550 |
| | | **High flow**<br>≥0.13 $m^3/s$ (cumecs) Gauge 143028A<br>≥0.11 $m^3/s$ (cumecs) Gauge 143032A<br>≥1.53 $m^3/s$ (cumecs) Gauge 143033A | | | | | | | | | | | |
| | | 19 | 490 | 990 | 20 | 65 | 15 | 90 – 110 | 50 | NA | 19 | 6.5 – 8.2 | 450 |
| **BRISBANE RIVER ESTUARY – lowland fresh waters** | | | | | | | | | | | | | |
| **All Lowland** | **HEV/SD** | **Low flow**<br><0.13 $m^3/s$ (cumecs) Gauge 143028A<br><0.11 $m^3/s$ (cumecs) Gauge 143032A<br><1.53 $m^3/s$ (cumecs) Gauge 143033A | | | | | | | | | | | |
| | | 5-9-13 | 4-11-25 | 220-280-370 | 4-7-11 | 12-18-30 | 1-1-4 | 90-100-110 | 1-3-6 | NA | 1-3-8 | 7.1-7.3-7.5 | 390-470-550 |

| Environmental Value Zone/ Water Type | Management intent /Level of protection | BRISBANE RIVER ESTUARY BASIN (refer plan WQ1411) [1–5] Aquatic ecosystem water quality objectives | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Note:** WQOs for indicators are shown as a range of 20th, 50th and 80th percentiles to be maintained or achieved (e.g. 3–4–5), lower and upper limits (e.g. pH: 7.2–8.2), or as a single value for which a median of test data should be equal to or less than (e.g. 15). Refer to Section 3.1.1 for more details on how to apply WQOs. HEV – high ecological value; SD – slightly disturbed; MD – moderately disturbed. ID – insufficient data. NA – not applicable | | | | | | | | | | | |
| | | **Ammonia** (µg/L) | **Oxidised Nitrogen** (µg/L) | **Total Nitrogen** (µg/L) | **Filterable Reactive Phosphorus** (µg/L) | **Total Phosphorus** (µg/L) | **Chlorophyll-a** (µg/L) | **Dissolved Oxygen[2]** (% saturation) | **Turbidity** (NTU) | **Secchi** (m) | **Total Suspended Solids[3]** (mg/L) | **pH** | **Conductivity** (µS/cm) |
| | | **High flow**<br>≥0.13 $m^3/s$ (cumecs) Gauge 143028A<br>≥0.11 $m^3/s$ (cumecs) Gauge 143032A<br>≥1.53 $m^3/s$ (cumecs) Gauge 143033A | | | | | | | | | | | |
| | | 3-6-19 | 25-140-490 | 470-630-990 | 10-14-20 | 35-50-65 | 1-1-15 | 90-100-110 | 14-30-50 | NA | 2-6-19 | 7.1-7.4-7.6 | 200-260-450 |
| **All Lowland** | **MD** | **Low flow**<br><0.13 $m^3/s$ (cumecs) Gauge 143028A<br><0.11 $m^3/s$ (cumecs) Gauge 143032A<br><1.53 $m^3/s$ (cumecs) Gauge 143033A | | | | | | | | | | | |
| | | 11 | 16 | 330 | 7 | 25 | 1 | 85 – 110 | 3 | NA | 3 | 6.5 – 8.0 | 490 |
| | | **High flow**<br>≥0.13 $m^3/s$ (cumecs) Gauge 143028A<br>≥0.11 $m^3/s$ (cumecs) Gauge 143032A<br>≥1.53 $m^3/s$ (cumecs) Gauge 143033A | | | | | | | | | | | |
| | | 8 | 75 | 560 | 11 | 40 | 1 | 85 – 110 | 13 | NA | 5 | 6.5 – 8.0 | 250 |

| Environmental Value Zone/ Water Type | Management intent /Level of protection | BRISBANE RIVER ESTUARY BASIN (refer plan WQ1411) [1–5] Aquatic ecosystem water quality objectives | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Note:** WQOs for indicators are shown as a range of 20th, 50th and 80th percentiles to be maintained or achieved (e.g. 3–4–5), lower and upper limits (e.g. pH: 7.2–8.2), or as a single value for which a median of test data should be equal to or less than (e.g. 15). Refer to Section 3.1.1 for more details on how to apply WQOs. HEV – high ecological value; SD – slightly disturbed; MD – moderately disturbed. ID – insufficient data. NA – not applicable | | | | | | | | | | | |
| | | **Ammonia** (µg/L) | **Oxidised Nitrogen** (µg/L) | **Total Nitrogen** (µg/L) | **Filterable Reactive Phosphorus** (µg/L) | **Total Phosphorus** (µg/L) | **Chlorophyll-a** (µg/L) | **Dissolved Oxygen[2]** (% saturation) | **Turbidity** (NTU) | **Secchi** (m) | **Total Suspended Solids[3]** (mg/L) | **pH** | **Conductivity** (µS/cm) |
| **BRISBANE RIVER ESTUARY – freshwater lakes and reservoirs** | | | | | | | | | | | | | |
| **Enoggera Reservoir** | **MD** | **All Flow** WQOs apply to surface (epilimnion) waters only during periods of stratification. Where seasonal (month) ranges are provided, these are a guide only as seasonal changes and lake turn-over may occur at slightly different times each year. | | | | | | | | | | | |
| | | June-Aug: 70 Sept-May: 10 | July-Aug: 18 Sept-June: 10 | 520 | 5 | 19 | 6 | 70 – 110 | 2 | 1.4 | 3 | 6.7 – 7.3 | 100 – 150 |
| **Gold Creek Reservoir** | **MD** | **All Flow** WQOs apply to surface (epilimnion) waters only during periods of stratification. Where seasonal (month) ranges are provided, these are a guide only as seasonal changes and lake turn-over may occur at slightly different times each year. | | | | | | | | | | | |
| | | May-Oct: 160 Nov-Apr: 10 | July-Sept: 70 Oct-June: 10 | 780 | 5 | 35 | 15 | 70 – 110 | 3 | 1.2 | 5 | 7.0 – 8.7 | 110 – 170 |
| **Urban Lakes [4]** | **MD** | **Low flow** Flow conditions of urban lakes can be determined by their surrounding catchment (These values are not to be applied during or after high flow events) | | | | | | | | | | | |
| | | NA | NA | 650 | NA | 60 | 15 | 50 - 95 | 8 | NA | NA | NA | NA |
| **BRISBANE RIVER ESTUARY – upper estuary waters** | | | | | | | | | | | | | |
| **All Upper Estuary Waters** | **MD** | 30 | 15 | 450 | 10 | 30 | 8 | 85 – 105 | 25 | 0.5 | 25 | 7.4 – 8.4 | NA |

| Environmental Value Zone/ Water Type | Management intent /Level of protection | BRISBANE RIVER ESTUARY BASIN (refer plan WQ1411) [1–5] Aquatic ecosystem water quality objectives | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Note:** WQOs for indicators are shown as a range of 20th, 50th and 80th percentiles to be maintained or achieved (e.g. 3–4–5), lower and upper limits (e.g. pH: 7.2–8.2), or as a single value for which a median of test data should be equal to or less than (e.g. 15). Refer to Section 3.1.1 for more details on how to apply WQOs. HEV – high ecological value; SD – slightly disturbed; MD – moderately disturbed. ID – insufficient data. NA – not applicable | | | | | | | | | | | |
| | | **Ammonia** (µg/L) | **Oxidised Nitrogen** (µg/L) | **Total Nitrogen** (µg/L) | **Filterable Reactive Phosphorus** (µg/L) | **Total Phosphorus** (µg/L) | **Chlorophyll-a** (µg/L) | **Dissolved Oxygen[2]** (% saturation) | **Turbidity** (NTU) | **Secchi** (m) | **Total Suspended Solids[3]** (mg/L) | **pH** | **Conductivity** (µS/cm) |
| **BRISBANE RIVER ESTUARY – middle estuary waters** | | | | | | | | | | | | | |
| **All Middle Estuary Waters** | **MD** | 10 | 10 | 300 | 6 | 25 | 4 | 85 – 105 | 8 | 1 | 20 | 7.0 – 8.4 | NA |
| **BRISBANE RIVER ESTUARY – lower estuary/enclosed coastal waters** | | | | | | | | | | | | | |
| **All Lower Estuary and Enclosed Coastal Waters** | **MD** | 8 | 3 | 200 | 6 | 20 | 2 | 90 – 105 | 6 | 1.5 | 15 | 8.0 – 8.4 | NA |
| **Intertidal Wetlands[5]** | | | | | | | | | | | | | |
| **All Intertidal Wetlands[5]** | **HEV/SD** | Maintain existing water quality (20th, 50th and 80th percentiles) habitat, hydrological environment, biota, and vegetation communities. Insufficient data is available to establish WQOs for these waters. Refer to the QWQG for details on how to establish a minimum data set for deriving WQOs. | | | | | | | | | | | |
| **All Intertidal Wetlands[5]** | **MD** | Insufficient data is available to establish WQOs for these waters. Refer to the QWQG for details on how to establish a minimum data set for deriving WQOs. | | | | | | | | | | | |

| Environmental Value Zone/ Water Type | Management intent /Level of protection | BRISBANE RIVER ESTUARY BASIN (refer plan WQ1411) [1–5] Aquatic ecosystem water quality objectives | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Note:** WQOs for indicators are shown as a range of 20th, 50th and 80th percentiles to be maintained or achieved (e.g. 3–4–5), lower and upper limits (e.g. pH: 7.2–8.2), or as a single value for which a median of test data should be equal to or less than (e.g. 15). Refer to Section 3.1.1 for more details on how to apply WQOs.<br>HEV – high ecological value; SD – slightly disturbed; MD – moderately disturbed. ID – insufficient data. NA – not applicable | | | | | | | | | | | |
| | | **Ammonia** (µg/L) | **Oxidised Nitrogen** (µg/L) | **Total Nitrogen** (µg/L) | **Filterable Reactive Phosphorus** (µg/L) | **Total Phosphorus** (µg/L) | **Chlorophyll-a** (µg/L) | **Dissolved Oxygen[2]** (% saturation) | **Turbidity** (NTU) | **Secchi** (m) | **Total Suspended Solids[3]** (mg/L) | **pH** | **Conductivity** (µS/cm) |
| **SEAGRASS** | | | | | | | | | | | | | |
| **Lower Estuary and Enclosed Coastal waters; Intertidal Wetlands[5]** | **All** | The minimum WQOs needed to restore seagrass to areas where it has been lost are:<br>• median total suspended solids: <10 mg/L;<br>• median secchi depth: >1.7 m; and<br>• light attenuation coefficient: <0.9.<br>However, in areas where seagrass is intact, it is more important to maintain existing water quality. Therefore the WQOs are:<br>• local total suspended solids, turbidity, secchi and light attenuation is maintained; and<br>• local seagrass distribution and composition is maintained, as measured by:<br>o extent of seagrass;<br>o species diversity; and<br>o seagrass depth limit | | | | | | | | | | | |
| **TOXICANTS (INCLUDING METALS, BIOCIDES)** | | | | | | | | | | | | | |
| | **All** | Toxicants (including metals, biocides) in water:<br>• Refer to the ANZG (2018) 'toxicant default guideline values for water quality in aquatic ecosystems' as amended:<br>o For HEV/SD waters – refer to 99% species protection values.<br>o For MD waters – refer to 95% species protection values. Note: refer to 99% species protection values where indicated by ANZG (including for toxicants with bioaccumulation, toxicity effects).<br>• The following source, where guideline values post-date the specified ANZG guideline value, or where there is no ANZG value specified for a toxicant (Note: the ANZG specifies the date of guideline development for each toxicant) | | | | | | | | | | | |

| Environmental Value Zone/ Water Type | Management intent /Level of protection | BRISBANE RIVER ESTUARY BASIN (refer plan WQ1411) [1–5] Aquatic ecosystem water quality objectives | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Note:** WQOs for indicators are shown as a range of 20th, 50th and 80th percentiles to be maintained or achieved (e.g. 3–4–5), lower and upper limits (e.g. pH: 7.2–8.2), or as a single value for which a median of test data should be equal to or less than (e.g. 15). Refer to Section 3.1.1 for more details on how to apply WQOs. HEV – high ecological value; SD – slightly disturbed; MD – moderately disturbed. ID – insufficient data. NA – not applicable | | | | | | | | | | | |
| | | **Ammonia** (µg/L) | **Oxidised Nitrogen** (µg/L) | **Total Nitrogen** (µg/L) | **Filterable Reactive Phosphorus** (µg/L) | **Total Phosphorus** (µg/L) | **Chlorophyll-a** (µg/L) | **Dissolved Oxygen[2]** (% saturation) | **Turbidity** (NTU) | **Secchi** (m) | **Total Suspended Solids[3]** (mg/L) | **pH** | **Conductivity** (µS/cm) |
| | | o Biocides: King et al (2017, as amended) (vol 1 and 2) *Proposed aquatic ecosystem protection guideline values for pesticides commonly used in the Great Barrier Reef catchment area* (available from Queensland Government publications)<br><br>Note: For information on the application of toxicant guidelines in estuaries, refer to ANZG Guideline values for other water types<br><br>Toxicants in sediments: refer to ANZG 'toxicant default guideline values for sediment quality'<br><br>Ship-sourced pollutants (including sewage): Discharge of ship-sourced pollutants (including sewage) to be controlled in accordance with requirements of the Transport Operations (Marine Pollution) Act 1995 and Regulation 2018. (Refer to Maritime Services Queensland website for further information.)<br><br>Anti-fouling: Comply with *Anti-fouling and in-water cleaning guidelines* (2015, as amended) | | | | | | | | | | | |
| **TEMPERATURE** | | | | | | | | | | | | | |
| | **All** | Temperature varies daily and seasonally, is depth-dependent and highly site specific. Refer to QWQG for details on how to establish a temperature range (20th – 80th percentiles) based on local waterways not impacted by anthropogenic thermal influence. From an ecological effects perspective, daily maximum temperature and daily variation in temperature are key indicators, and seasonal variations also need to be identified. | | | | | | | | | | | |

**Units:** µg/L – micrograms per litre; µS/cm – microsiemens per centimetre; NTU – nephelometric turbidity units; m – metres; mg/L – milligrams per litre.

**Notes:**

1. Nutrients: Ammonia N comprises both un-ionised ammonia ($NH_3$) and ionised ammonium ($NH_4^+$). Oxidised N = $NO_2$ + $NO_3$. Ammonia N + Oxidised N = Dissolved inorganic N (DIN).

Except where specified for high flow conditions, nutrient WQOs do not apply during high flow events in fresh and estuarine waters. During periods of low flow and particularly in smaller creeks, build-up of organic matter derived from natural sources (e.g. leaf litter) can result in increased organic N levels (generally in the range of 400 to 800µg/L). This may lead to total N values exceeding the WQOs. If levels of inorganic N (Ammonia-N and Oxidised N) remain low, then high values of Total N, due to elevated levels of organic N, should not be seen as an exceedance of the WQOs, provided this is due to natural causes. See QWQG (section 5 and Appendix D) for more information on applying guidelines under high flow conditions.

2. Dissolved oxygen (DO): Dissolved Oxygen (DO) guidelines apply to daytime conditions. Lower values will occur at night in most waters. In estuaries, reductions should only be in the region of 10–15 per cent saturation below daytime values. In freshwaters, night-time reductions are more variable. Following significant rainfall events, reduced DO values may occur due to the influx of organic material. In estuaries post-event values as low as 40 per cent saturation may occur naturally for short periods but values well below this would indicate some anthropogenic effect. In freshwaters, post-event DO reductions are again more variable. In general, DO values consistently less than 50 per cent are likely

to impact on the ongoing ability of fish to persist in a water body while short term DO values less than 30 per cent saturation are toxic to some fish species. Very high DO (supersaturation) values can be toxic to some fish as they cause gas bubble disease. DO values should not be applied to stagnant pools in intermittent streams as they naturally experience values of DO below 50 per cent saturation.

3. Total suspended solids – coastal waters: TSS (and hence turbidity and Secchi depth) levels in coastal waters are naturally highly variable depending on wind speed/wave height and in some cases on tidal cycles. The values in this table provide guidance on what the long term values of turbidity, Secchi depth or TSS should comply with. However, these values will often be naturally exceeded in the short term during windy weather or spring tides. They therefore should not be used for comparison with short term data sets. Where assessable coastal developments are proposed, proponents should carry out site specific intensive monitoring of these indicators (or equivalent light penetration indicators) and use these as a baseline for deriving local guidelines and for comparison with post development conditions.

4. WQOs for urban lakes apply to all waters when lake is fully mixed but only to surface waters (epilimnion) during stratified periods, noting that lakes should be designed such that the release of anoxic hypolimnetic waters to the surface or to downstream areas is minimised. Chlorophyll-a is the primary eutrophication indicator. No infestations of floating weeds such as *Eichhornia, Azolla, Lemna, Salvinia,* and *Pistia*.

5. Intertidal wetlands are found between high and low tide and can include a variety of environments such as intertidal seagrasses, mud flats, mangroves, salt marsh, and salt flats. Intertidal wetlands are flushed with estuarine water with an incoming tide. As water interacts with sediments, vegetation, algae, and biota, changes to water quality occur over each inundation and drying cycle. Combined with the variety of environments of intertidal wetlands, this means that water quality is site-specific and variable over the tidal cycle. Site-specific WQOs should be developed where required. Refer to the QWQG for details on how to establish a minimum water quality dataset for deriving local values.

## 3.2 Biological Water Quality Objectives

**Table 3 Aquatic ecosystem EV: Biological water quality objectives for freshwater streams with a Moderately Disturbed level of protection**

| Indicator[1] | | Percentile used | Water Type | | | Operant[2] | Units |
|---|---|---|---|---|---|---|---|
| | | | Wallum /tannin-stained freshwater | Lowland freshwater | Upland freshwater | | |
| Fish | Percent of native species expected (PONSE) | original guideline | 100 | 100 | 100 | >= | % |
| | Observed to expected species ratio (O/E) | used for all | 1 | 1 | 1 | >= | ratio (number) |
| | Percent Alien individuals | fish indices | 0 | 0 | 0 | = | % |
| Invertebrates | Richness (family) | 20th | 11 | 22 | 22 | >= | number |
| | PET taxa (taxa sensitive to human disturbance) | 20th | 3 | 4 | 5 | >= | number |
| | SIGNAL score (stream invertebrate grade number average level)<br>1 = most tolerant<br>10 = most sensitive | 20th | 4 | 4 | 4.6 | >= | number |
| Ecological Processes | Gross primary production (GPP) | 80th | 0.5 | 0.5 | 0.25 | <= | $gC/m^2/day$ |

| Indicator[1] | | Percentile used | Water Type | | | Operant[2] | Units |
|---|---|---|---|---|---|---|---|
| | | | Wallum /tannin-stained freshwater | Lowland freshwater | Upland freshwater | | |
| | Respiration (R24) | 80th | 0.35 | 0.35 | 0.15 | <= | $gC/m^2/day$ |
| | Carbon isotope ratio measure (Del $^{13}C$) | 20th | -28 | -28 | -28 | >= | delta units |
| | Chlorophyll-a | 80th | 12 | 12 | 8 | <= | mg Chl $a/m^2$ day |
| Nutrient Cycling | Algal bioassay (N+P)/C | 80th | 4 | 4 | 4 | <= | ratio (number) |
| | Nitrogen isotope ratio measure (Del $^{15}N$) | 80th | 5 | 5 | 5 | <= | delta units |

**Notes**:
1. More details on the indicators in this table are provided in Appendix E of the QWQG (2009), and the Ecosystem Health Monitoring Program (EHMP) annual technical reports (2002–03, 2003–04).
2. For each indicator the 'operant' denotes whether test-site values should be higher than or lower than the specified number to achieve compliance.

## 3.3 Vegetation management and planning provisions

This following is provided for information on vegetation, habitat and planning matters. While it is current at time of publication, readers should refer to relevant Queensland websites and legislation to ensure they are referring to current materials.

## 3.4 Riparian vegetation

The clearing of native vegetation in Queensland is regulated by the *Vegetation Management Act 1999*, the *Planning Act 2016* and associated policies and codes. This includes the regulation of clearing within a defined distance of watercourses and drainage features.

For vegetation management relating to waterways, reference should be made to:

- State Development Assessment Provisions (SDAP) State Code 16: Native vegetation clearing. State Code 16 requires clearing of native vegetation to meet performance outcomes relating to the protection of wetlands, watercourses and drainage features. State Code 16 outlines buffer areas where clearing cannot occur within a specified distance of watercourses or drainage features. If clearing within these buffers cannot be reasonably avoided, an offset may be required to counterbalance any significant residual impact to a wetland, watercourse or drainage feature. For more information on SDAP State code 16, refer to the Queensland's Planning System website.

- The relevant Accepted Development Vegetation Clearing Codes (ADVCC) under the *Vegetation Management Act 1999*. These codes allow self-assessable clearing for certain purposes in particular land tenures and regional ecosystems. It is a requirement across all codes for landholders to use best practice methods when clearing vegetation to prevent soil erosion and instability and to prevent increased sediment run-off entering a wetland, watercourse or drainage feature. The codes also contain riparian protection zones to prevent clearing within a defined distance of a wetland, a stream ordered watercourse or a drainage feature. Where a code permits clearing within these areas, there are additional requirements to rehabilitate the area or to legally secure an exchange area (for clearing of regulated regrowth vegetation) to counterbalance the impact. For more information on the ADVCCs and guidance material, refer to the Queensland Government's website on vegetation management.

Clearing of native vegetation in a watercourse may also require a riverine protection permit under the *Water Act 2000*. Further information is available at www.business.qld.gov.au.

Local Government Planning schemes under the *Planning Act 2016* may also specify riparian buffers (for example under catchment protection or waterway codes). For further information about planning schemes, refer to relevant local government websites and Queensland Government information on planning.

## 3.5 Wetlands

The Environmental Protection (Water and Wetland Biodiversity) Policy 2019 defines environmental values for wetlands.

The State Development Assessment Provisions (SDAP) guide the State Assessment and Referral Agency's assessment of development applications, via a coordinated, whole-of-government approach. The SDAP includes performance and acceptable outcomes for wetlands and water quality depending on the location and type of development. Appendix 1 of SDAP assists applicants in determining which of the state codes apply to a development application based on the relevant assessment triggers in the Planning Regulation 2017.

## 3.6 Marine protected areas

In Queensland, declared fish habitat areas (under the *Fisheries Act 1994*) protect the state's key estuarine and coastal fish habitats from development impacts to support sustainable fishing.

Works within declared fish habitat areas are either assessable development for which a development approval is required under the *Planning Act 2016,* or accepted development under the *Fisheries (General) Regulation 2019.* To be accepted development, works must comply with the relevant accepted development requirements. If all requirements are not met, then the development is assessable and a development approval must be applied for.

The state assesses building work or operational development that may have impacts on declared fish habitat areas against the State Development Assessment Provisions (SDAP) State code 12: Development in a declared fish habitat area. (For more information on SDAP State codes, refer to the Queensland's Planning System website.

Performance outcomes for all assessable development include (but are not limited to):

- development does not increase the risk of mortality, disease or injury, or compromise the health, productivity, marketability or suitability for human consumption of fisheries resources, having regard to (but not limited to)
  - biotic and abiotic conditions, such as water and sediment quality
  - substances that are toxic to plants or toxic to or cumulative within fish
- development maintains or improves water quality

- development likely to cause disturbance to potential or actual acid sulfate soil, prevents the release of contaminants.

In most cases a resource allocation authority is also required under the *Fisheries Act 1994* before assessable development can proceed. The Department of Environment and Science website contains further information on approvals, accepted development requirements and other aspects relating to declared fish habitat areas.

Marine parks (under the *Marine Parks Act 2004*) protect tidal lands and waters to conserve the marine environment while allowing for sustainable use. A marine park comprises zones that offer differing levels of management. Depending on the zone, activities can occur "as of right", with permission, or may be prohibited. For more information about declared fish habitat areas and marine parks, see the department's website.

## 3.7 Marine plants

Marine plants grow on or adjacent to tidal lands. They include tidal plants such as mangroves, seagrass, saltcouch, algae, samphire (succulent) vegetation and seasonally connected adjacent plants, such as melaleuca (paper barks) and casuarina (coastal she-oaks). Marine plants support local fish populations, fish catches and general aquatic health, and for this reason they are protected under the *Fisheries Act 1994*.

A material change of use, reconfiguring of a lot, and operational work that will remove, damage or destroy a marine plant is either assessable development for which a development approval is required under the *Planning Act 2016,* or accepted development under the *Fisheries (General) Regulation 2019.* Work types that are described as accepted development must comply with the relevant accepted development requirements in all respects. If all requirements are not met, then the development is assessable and must be applied for.

The state assesses development applications that may have impacts on marine plants using the State Development Assessment Provisions (SDAP) State code 11: Removal, destruction or damage of marine plants. (For more information on SDAP State codes, refer to the Queensland's Planning System website.

Performance outcomes for all development include (but are not limited to):

- development does not increase the risk of mortality, disease or injury, or compromise the health, productivity, marketability or suitability for human consumption of fisheries resources, having regard to (but not limited to)
  - biotic and abiotic conditions, such as water and sediment quality
  - substances that are toxic to plants or toxic to or cumulative within fish
- development likely to cause drainage or disturbance to acid sulfate soils, prevents the release of contaminants and impacts on fisheries resources and fish habitats.

A marine plant is a matter of state environmental significance under the *Environmental Offsets Act 2014* and an environmental offset may be required for any significant residual impact that is approved.

The Department of Agriculture and Fisheries website contains further information on approvals, accepted development requirements and other aspects relating to marine plants.

## 3.8 Waterways providing for fish passage

Waterway barrier works may inhibit the free movement of fish along waterways and onto floodplains, injure fish or affect fish health and habitat. Many native fish need to access a range of habitats for food, breeding and refuge and move or migrate to complete their lifecycle.

Adequate fish passage must be provided at any proposed waterway barrier. Operational work that is to construct or raise a waterway barrier is assessable development for which a development approval is required under the *Planning Act 2016,* or is accepted development under the *Fisheries (General) Regulation 2019.* Work types that are described as accepted development must comply with the relevant accepted development requirements in all

respects. If all requirements are not met, then the development is assessable and must be applied for. The state assesses development applications that may have impacts to fish passage using the State Development Assessment Provisions (SDAP) State code 18: Constructing or raising waterway barrier works in fish habitats. For more information on SDAP State codes, refer to the 'Queensland's Planning System' website.

Performance outcomes for all development include (but are not limited to):

- development does not increase the risk of mortality, disease or injury, or compromise the health, productivity, marketability or suitability for human consumption of fisheries resources, having regard to (but not limited to)
  - biotic and abiotic conditions, such as water and sediment quality
  - substances that are toxic to plants or toxic to or cumulative within fish
- sufficient water exchange and flow is maintained and provided to sustain and where necessary restore, water quality and the health and condition of fisheries resources, ecological functions and fish passage
- development likely to cause drainage or disturbance to acid sulfate soils, prevents the release of contaminants and impacts on fisheries resources and fish habitats.

A waterway providing for fish passage is a matter of state environmental significance under the *Environmental Offsets Act 2014* and an environmental offset may be required for any significant residual impact that is approved.

The Department of Agriculture and Fisheries website contains further information on approvals, accepted development requirements and other aspects relating to waterway barrier works and fish passage.

## 3.9 State planning policy – (state interest – water quality)

The State Planning Policy (SPP) defines the Queensland Government's policies about matters of state interest in land use planning and development (a state interest is defined under the *Planning Act 2016*).

Water quality is a state interest. The SPP (state interest – water quality) seeks to ensure that 'the environmental values and quality of Queensland waters are protected and enhanced'. It includes provisions relating to receiving waters, acid sulfate soils and water supply buffer areas.

The provisions of the SPP are applied through their 'integration' into local government planning schemes. Planning schemes adopt measures prescribed in the SPP that ensure development is planned, designed, constructed and operated to manage stormwater and wastewater in ways that support the protection of environmental values and meet the water quality objectives identified in the Environmental Protection (Water and Wetland Biodiversity) Policy 2019.

This is achieved by compliance with the policy provisions of the SPP (state interest – water quality).

Stormwater management design objectives for the construction phase include developments using measures to manage the velocity of stormwater flows and prevent erosion, sediment, litter and other contaminates entering waterways while construction is occurring. Post construction phase stormwater management design objectives generally apply to lots over 2500m$^2$ that results in six or more dwellings or lots. The stormwater management design objectives seek to limit the amount of nutrients, including nitrogen and phosphorus, suspended sediments, litter, and other contaminants entering waterways from the operation of the development.

The SPP is supported by guidance materials which include integrating state interests in a planning scheme. These are available from the State Planning Policy website. Supplementary guidance is available from the Department of Environment and Science website on post construction phase stormwater management (phase 5b).

Department of State Development, Infrastructure, Local Government and Planning guidance for local government follows:

https://dsdmipprd.blob.core.windows.net/general/integrating-state-interests-in-planning-schemes-guidance-for-local-government.pdf

Further details on the State Planning Policy follow:

https://planning.statedevelopment.qld.gov.au/planning-framework/plan-making/state-planning/state-planning-policy

# 4 Water quality objectives for human use environmental values (EVs)

This section outlines water quality objectives (WQOs) to protect human use environmental values (EVs), which comprise those EVs (e.g. recreation, stock watering, aquaculture and crop irrigation) other than the aquatic ecosystem EV. The table in section 2 of this document outline's the EVs that have been identified for different waters. Where a human use EV has been identified, the following tables can be used to identify the WQOs to support that EV. Where more than one EV applies to a given water (for example aquatic ecosystem and recreational use), the adoption of the most stringent WQO for each water quality indicator will then protect all identified EVs. Note that human use WQOs tables in this section are provided for all potentially applicable human use EVs. As the range of human use EVs varies by water, reference to section 2 is required to identify the human use EVs stated for a particular water, from which the corresponding human use WQOs tables in this section can then be identified.

WQOs in this section are, unless otherwise specified, based on relevant national water quality guidelines including ANZG (2018, as amended) and the Australian Drinking Water Guidelines (ADWG). Where national guidelines or other codes remain the primary source for WQOs, reference to those national guidelines or codes is necessary to obtain comprehensive listings of all indicators and corresponding WQOs.

## 4.1 Human use EVs water quality objectives

The following table summarises WQOs for human use EVs. More details are provided in subsequent sections by human use EV.

**Table 4: Human use EVs water quality objectives**

| Environmental value | Water type/area | Water quality objective to protect EV (refer to specified codes and guidelines for full details) |
|---|---|---|
| Suitability for drinking water supply | All fresh waters including groundwaters | The Australian Drinking Water Guidelines (NHMRC, 2011, as amended) provides a framework for catchment management and source water protection for drinking water supplies.<br>Quality of raw water (prior to treatment) should consider the requirements of water supply operators, and their capacity to treat the water to make it safe for human consumption. Also refer to Table 5.<br>Whether water is drawn from surface catchments or underground sources, it is important that the local catchment or aquifer is understood, and that the activities that could lead to water contamination are identified and managed. In South East Queensland the water resource catchment area and the water supply buffer area identify these areas. See the *State Planning Policy 2017* and the interactive mapping system for assessment benchmarks around development in water supply buffer areas. Effective catchment management and source water protection include development of a catchment management plan, to prevent inappropriate development and to enforce relevant planning regulations.<br>Note: For water quality after treatment or at point of use refer to legislation and guidelines, including:<br>• *Queensland Public Health Act 2005* and Regulation (2018)<br>• *Water Supply (Safety and Reliability) Act 2008*, including the relevant drinking water quality management plan and, where applicable, the recycled water management plan for augmenting a drinking water supply under the Act and the published Drinking Water Quality Management Plan Guideline<br>• *Water Fluoridation Act 2008* and Regulation (2020)<br>• *Australian Drinking Water Guidelines* (ADWG, 2011, as amended).<br>• Safe Water on Rural Properties guideline (Queensland Health, 2015) |

| Environmental value | Water type/area | Water quality objective to protect EV (refer to specified codes and guidelines for full details) |
|---|---|---|
| Protection of the human consumer for oystering | Estuarine and coastal waters | As per ANZG and Australia New Zealand Food Standards Code, Food Standards Australia New Zealand, as amended. (refer Food Standards Australia New Zealand website) |
| Protection of the human consumer | Fresh waters, estuarine and coastal waters | As per ANZG and Australia New Zealand Food Standards Code, Food Standards Australia New Zealand, as amended. |
| Protection of cultural and spiritual values | Fresh waters (including groundwaters), estuarine and coastal waters | Protect or restore indigenous and non-indigenous cultural heritage consistent with relevant policies and plans. |
| Suitability for industrial use | Fresh waters, estuarine and coastal waters | None provided. Water quality requirements for industry vary within and between industries. The ANZG do not provide guidelines to protect industries and indicate that industrial water quality requirements need to be considered on a case-by-case basis. This EV is usually protected by other values, such as the aquatic ecosystem EV. |
| Suitability for aquaculture | Fresh waters, estuarine and coastal waters | As per:<br>• Tables 6-8<br>• ANZG and Australia New Zealand Food Standards Code, Food Standards Australia New Zealand, as amended |
| Suitability for irrigation | All fresh waters including groundwaters | Pathogens and metal WQOs are provided in Tables 9 and 10 (based on ANZG). For all other indicators, such as salinity, sodicity, sodium adsorption ratio (SAR), and herbicides, refer ANZG. |
| Suitability for stock watering | All fresh waters including groundwaters | As per ANZG, including median faecal coliforms <100 organisms per 100 mL.<br>For total dissolved solids and metals, refer Tables 11 and 12, based on ANZG.<br>For other indicators, such as cyanobacteria and pathogens, see ANZG. |
| Suitability for farm supply/use | All fresh waters including groundwaters | As per ANZG 2018.<br>Also refer to Safe Water on Rural Properties (Queensland Health, 2015) |
| Suitability for primary contact recreation | Fresh waters, estuarine and coastal waters | Note: at time of publication the NHMRC guidelines for recreational water quality were under review, and updates may supersede the following. Refer to NHMRC website for latest information and updated guidelines.<br>As per NHMRC (2008 – refer NHMRC website) including:<br>• water free of physical (floating and submerged) hazards. Where permanent hazards exist (e.g. rips and sandbars), appropriate warning signs should be clearly displayed.<br>• temperature range: 16–34°C<br>• pH range: 6.5–8.5<br>• DO: >80%<br>• faecal contamination: designated recreational waters are protected against direct contamination with fresh faecal material, particularly of human or domesticated animal origin. Two principal components are required for assessing faecal contamination:<br>- assessment of evidence for the likely influence of faecal material<br>- counts of suitable faecal indicator bacteria (usually *enterococci*)<br>These two components are combined to produce an overall microbial classification of the recreational water body.<br>• The enterococci values in the Healthy Waterways (now Healthy Land and Water), Healthy Waterplay, Microbial Trigger Value Justification Paper, 2014 are adopted for management of recreational waters in SEQ.<br>• direct contact with venomous or dangerous aquatic organisms should be avoided. Recreational water bodies should be reasonably free of, or protected from, venomous |

| Environmental value | Water type/area | Water quality objective to protect EV (refer to specified codes and guidelines for full details) |
|---|---|---|
| | | organisms (e.g. box jellyfish and bluebottles)<br>• waters contaminated with chemicals that are either toxic or irritating to the skin or mucous membranes are unsuitable for recreational purposes.<br>Also refer to Safe Water on Rural Properties (Queensland Health, 2015) |
| Suitability for primary contact recreation | Fresh waters | Note: at time of publication the NHMRC guidelines for recreational water quality were under review. Refer to NHMRC website for latest information and updated guidelines.<br>Red level action mode[1]:<br>Level 1 guideline: Recreational water bodies should not contain biovolume equivalent of ≥ 4 $mm^3/L$ biovolume equivalent for the combined total of all cyanobacteria where a known toxin producer is dominant in the total biovolume<br>or<br>Level 2 guideline: ≥ 10 $mm^3/L$ for total biovolume of all cyanobacterial material where known toxins are not present. Cyanobacterial scums should not be present.<br><br>A framework for managing the risks of cyanobacteria to recreational users of water was implemented by Seqwater based on toxin guideline values (Veal et al. 2018). See Section 3.6 and Veal et al. (2018) for detail.<br><br>Also refer to Safe Water on Rural Properties (Queensland Health, 2015). |
| | Estuarine, coastal waters | • cyanobacteria/algae: Recreational water bodies should not contain ≥ 10 cells/mL *Karenia brevis* and/or have *Lyngbya majuscula* and/or *Pfiesteria* present in high numbers[2]. Further details are contained in NHMRC (2008) and Table 13. |
| Suitability for secondary contact recreation | Fresh waters, estuarine and coastal waters | As per NHMRC (2008) and Healthy Waterways Healthy Waterplay Microbial Trigger values, including:<br>• intestinal enterococci: refer primary recreation above<br>• cyanobacteria/algae—refer Section 3.6, NHMRC (2008). |
| Suitability for visual recreation | Fresh waters, estuarine and coastal waters | As per NHMRC (2008), including:<br>• recreational water bodies should be aesthetically acceptable to recreational users. The water should be free from visible materials that may settle to form objectionable deposits; floating debris, oil, scum and other matter; substances producing objectionable colour, odour, taste or turbidity; and substances and conditions that produce undesirable aquatic life.<br>• cyanobacteria/algae—see, NHMRC (2008). |

**Notes:**

1. Level 1 recognises the probability of adverse health effects from ingestion of known toxins, in this case based on the toxicity of microcystins. Level 2 covers circumstances in which there are very high cell densities of cyanobacterial material, irrespective of the presence of toxicity or known toxins. Increased cyanobacterial densities increase the likelihood of non-specific adverse health outcomes, principally respiratory, irritation and allergy symptoms. (NHMRC, 2008; 8).
2. The NHMRC states that its guidelines are concerned 'only with risks that may be associated with recreational activities in or near coastal and estuarine waters. This includes exposure through dermal contact, inhalation of sea-spray aerosols and possible ingestion of water or algal scums, but does not include dietary exposure to marine algal toxins.' (NHMRC, 2008; 121).

**Sources:**

The WQOs were determined from a combination of sources, including:

- Technical review and advice from Queensland Health and Department of Regional Development, Manufacturing and Water (2020)
- Australian Drinking Water Guidelines (NHMRC, 2011 as updated 2016), available from NHMRC website
- Australia New Zealand Food Standards Code (Australian Government: Food Standards Australia New Zealand), available from Food Standards Australia New Zealand website
- Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZG, 2018, as amended)
- Guidelines for Managing Risks in Recreational Water (NHMRC, 2008), available from NHMRC website. At time of publication the NHMRC guidelines were under review. Refer to NHMRC website for latest information and updated guidelines.
- Safe Water on Rural Properties (Queensland Health, 2015)

## 4.2 Drinking water EV water quality objectives

**Table 5 Drinking water EV: Priority water quality objectives for drinking water supply in the water supply buffer area, including groundwater, before treatment**

| Indicator | Water quality objective [1] |
|---|---|
| *Giardia* | 0 cysts/10L<br>If *Giardia* is detected in treated drinking water, the Water Supply Regulator, DRDMW must and Queensland Health should be notified immediately and an investigation of the likely source of contamination undertaken. |
| *Cryptosporidium* | 0 oocysts/10L<br>If *Cryptosporidium* is detected in treated drinking water, the Water Supply Regulator, DRDMW must and Queensland Health should be notified immediately and an investigation of the likely source of contamination undertaken. |
| *E. coli* | <50 CFU/100mL<br>Well designed treatment plants with effective treatment barriers and disinfection are designed to address faecal contamination. *E. coli* or thermotolerant coliforms should not be present in any 100 mL sample of (treated) drinking water (ADWG). <1 cfu/100ml (Public Health Regulation 2018) and upstream sewage effluent discharges need to be known (catchment management). If *E. coli* is detected in treated drinking water, the Water Supply Regulator, DRDMW must and Queensland Health should be notified immediately and an investigation of the likely source of contamination undertaken. |
| Algal toxin | <1.3 µg/L Microcystin (ADWG) |
| Total Cyanophytes Counts/Biovolumes | M.aeruginosa 6 500 cells/mL or BV 0.6 $mm^3$/L<br>R.raciborskii 15 000 cells/mL or BV 0.6 $mm^3$/L<br>N.spumigena 40 000 cells/mL or BV 9.1 $mm^3$/L<br>D.circinale 20 000 cells/mL or BV 5 $mm^3$/L |
| Hardness | <200 mg/L as CaCO3 (aesthetic) |
| Taste and Odour | <5 ng/L combine MIB and Geosmin |
| Total Phosphorus | <0.05 mg/L |
| Total Nitrogen | <0.5 mg/L |
| Ammonia | <0.5 mg/L |
| Nitrate | <10 mg/L |
| pH | 6.5–8.5 (ADWG) |
| Specific Conductivity | <450 µS/cm |
| Dissolved Organic Carbon | <10 mg/L |
| Total Suspended Solids | <25 mg/L |
| Total dissolved solids (TDS) | <600mg/L<br>The concentration of total dissolved solids in treated drinking water should not exceed 600 mg/L (ADWG, based on taste considerations). |
| Colour | <50 Hazen Units |
| Sodium | General [2]: The concentration of sodium in reticulated drinking water supplies should not exceed 180 mg/L (ADWG, based on threshold at which taste becomes appreciable).<br>At-risk groups (medical) [2]: The concentration of sodium in water supplies for at-risk groups should not exceed 20 mg/L (ADWG). |

| Indicator | Water quality objective [1] |
|---|---|
| Sulfate | The concentration of sulfate in drinking water should not exceed 250 mg/L (ADWG 2011, based on taste/aesthetic considerations).<br>ADWG 2011 health guideline: <500mg/L |
| Aluminium | <0.1 mg/L |
| Arsenic | <0.01 mg/L |
| Iron (total) | <0.3 mg/L |
| Iron (dissolved) | <0.03 mg/L |
| Lead | <0.01 mg/L |
| Manganese (total) | <0.1 mg/L |
| Manganese (dissolved) | <0.01 mg/L |
| Dissolved oxygen | >85% saturation (ADWG) |
| Pesticides | Raw supplies: Refer to ADWG.<br>Treated drinking water: Refer to ADWG. |
| PFOS+PFHxS | <35 ng/L |
| PFOA | <280 ng/L |
| Microplastics <300 µm | 0 microplastics per litre |
| Other indicators (including physico-chemical indicators) | Refer to ADWG. |

1. **Source**: Australian Drinking Water Guidelines (NHMRC, 2011 as updated 2021). Technical review and advice from Seqwater, Queensland Health and Department of Regional Development, Manufacturing and Water (DRDMW) (2021).This table outlines WQOs for water **before treatment**, unless otherwise stated (e.g. ADWG). For water quality after treatment or at the point of use, refer to relevant legislation and guidelines, including *Public Health Act 2005* and Regulation, *Water Supply (Safety and Reliability) Act 2008 and Regulation*, including any approved drinking water management plan under the Act, *Water Fluoridation Act 2008*, the Australian Drinking Water Guidelines (ADWG, 2011 updated December 2013), and the Safe Water on Rural Properties guideline (Queensland Health, 2015).
2. The ADWG notes that 50 mg/L is a '*typical value*' in reticulated supplies. The ADWG value for sodium is 180 mg/L (based on level at which taste become appreciable) however '*sodium salts cannot be easily removed from drinking water*' and '*any steps to reduce sodium concentrations are encouraged*'. It further notes that '*medical practitioners treating people with severe hypertension or congestive heart failure should be aware if the sodium concentration in the patient's drinking water exceeds 20 mg/L*' (ADWG; sodium factsheet).

## 4.3 Aquaculture EV water quality objectives

The following tables outline WQOs for aquaculture, depending on water type and species.

### Table 6 Aquaculture EV: water quality objectives for tropical aquaculture

| Water parameter | Recommended range | | Water parameter | Recommended range |
|---|---|---|---|---|
| | Fresh water | Marine | | General aquatic |
| **Dissolved oxygen** | >4 mg/L | >4 mg/L | **Arsenic** | <0.05 mg/L |
| **Temperature** | 21–32˚C | 24–33˚C | **Cadmium** | <0.003 mg/L |
| **pH** | 6.8–9.5 | 7–9.0 | **Calcium/Magnesium** | 10–160 mg/L |
| **Ammonia (TAN, total ammonia-nitrogen)** | <1.0 mg/L | <1.0 mg/L | **Chromium** | <0.1 mg/L |
| **Ammonia ($NH_3$, un-ionised form)** | <0.1 mg/L | <0.1 mg/L | **Copper** | <0.006 mg/L in soft water |
| **Nitrate ($NO_3$)** | 1–100 mg/L | 1–100 mg/L | **Cyanide** | <0.005 mg/L |
| **Nitrite ($NO_2$)** | <0.1 mg/L | <1.0 mg/L | **Iron** | <0.5 mg/L |
| **Salinity** | 0–5 psu | 15–35 psu | **Lead** | <0.03 mg/L |
| **Hardness** | 20–450 mg/L | ID | **Manganese** | <0.01 mg/L |
| **Alkalinity** | 20–400 mg/L | >100 mg/L | **Mercury** | <0.00005 mg/L |
| **Turbidity** | <80 NTU | ID | **Nickel** | <0.01 mg/L in soft water<br><0.04 mg/L in hard water |
| **Chlorine** | <0.003 mg/L | ID | **Tin** | <0.001 mg/L |
| **Hydrogen sulphide** | <0.002 mg/L | ID | **Zinc** | 0.03–0.06 mg/L in soft water<br>1–2 mg/L in hard water |

**Indicator:** psu – practical salinity unit, NTU - nephelometric turbidity units, ID – Insufficient data
**Note:** The table provides indicative water requirements for a range of aquaculture species (fresh and/or marine), recognising that not all listed species will occur in a given area, and that potential exists for changes in species under culture.

**Source:** Department of Primary Industries and Fisheries—Water Quality in Aquaculture—DPI Notes April 2004 (as amended) and DAF 2019-2020 technical review and advice.

**Table 7 Aquaculture EV: Water quality objectives for optimal growth of particular freshwater species**

| **WATER QUALITY OBJECTIVES** | | | | | | |
|---|---|---|---|---|---|---|
| Water parameter | Barramundi | Eel | Silver perch | Jade perch | Sleepy cod | Red-claw |
| Dissolved oxygen | 4–9 mg/L | >3 mg/L | >4 mg/L | >3 mg/L | >4.0 mg/L | >4.0 mg/L |
| Temperature | 26–32˚C | 23–28˚C | 23–28˚C | 23–28˚C | 22–31˚C | 23–31˚C |
| pH | 7.5–8.5 | 7.0–8.5 | 6.5–8.5 | 6.5–8.5 | 7.0–8.5 | 7.0–8.5 |
| Ammonia (TAN, Total ammonia–nitrogen) | ID | <1.0 mg/L | ID | ID | <1.0 mg/L | <1.0 mg/L |
| Ammonia ($NH_3$, un–ionised form) | <0.46 mg/L | <0.1 mg/L | <0.1 mg/L | <0.1 mg/L | <0.1 mg/L | <0.1 mg/L |
| Nitrate ($NO_3$) | ID | ID | <100 mg/L | ID | ID | ID |
| Nitrite ($NO_2$) | <1.5 mg/L | <1.0 mg/L | <0.1 mg/L | ID | <1.0 mg/L | <1.0 mg/L |
| Salinity (extended periods) | 0–35 psu | ID | <5 psu | <5 psu | ID | <4 psu |
| Salinity bath (short term treatment) | 0–35 psu | ID | 5–10 psu for 1 hour | ID | max. 20 psu for 1 hour | ID |
| Hardness ($CaCO_3$) | 50-100 mg/L | ID | >50 mg/L | >50 mg/L | >40 mg/L | >40 mg/L |
| Alkalinity | >50 mg/L | ID | 100–400 mg/L | 100–400mg/L | >40 mg/L | >40 mg/L |
| Chlorine | <0.04 mg/L | ID | ID | ID | <0.04 mg/L | ID |
| Hydrogen sulphide | <0.3 mg/L | ID | ID | ID | <0.3 mg/L | ID |
| Iron | <0.1 mg/L | ID | <0.5 mg/L | <0.5 mg/L | <0.1 mg/L | <0.1 mg/L |
| Spawning temperature | marine | ID | 23–28 | 23–28 | >24 for more than 3 days | ID |

**Indicator:** psu – practical salinity unit, ID – Insufficient data

**Note:** The table provides indicative water requirements for a range of aquaculture species (fresh and/or marine), recognising that not all listed species will occur in a given area, and that potential exists for changes in species under culture.

**Source:** Department of Primary Industries and Fisheries—Water Quality in Aquaculture—DPI Notes April 2004 (as amended) and DAF 2019-2020 technical review and advice.

## Table 8 Aquaculture EV: Water quality objectives for optimal growth of particular marine species

| Water parameter | Barramundi | | Black tiger prawn (*Penaeus monodon*) | |
|---|---|---|---|---|
| | **Hatchery** | **Grow out** | **Hatchery** | **Grow out** |
| **Dissolved oxygen** | saturation | >4 mg/L | >4 mg/L | >3.5 mg/L |
| **Temperature** | 28–30˚C optimum<br>25–31˚C range | 28–30˚C optimum | 28-30˚C | 26–32˚C |
| **pH** | approx. 8 | approx. 8 | 7.8-8.2 | 7.5–8.5 |
| **Ammonia (TAN, total ammonia-nitrogen)** | ID | 0.1–0.5 mg/L | ID | <3 mg/L |
| **Ammonia ($NH_3$, un-ionised form)** | <0.1 mg/L | <0.1 mg/L | <0.1 mg/L | <0.1 mg/L |
| **Nitrate ($NO_3$)** | <1.0 mg/L | <1.0 mg/L | <1.0 mg/L | <1.0 mg/L |
| **Nitrite ($NO_2$)** | <0.2 mg/L | <1.0 mg/L | <0.2 mg/L | <0.2 mg/L |
| **Salinity** | 28–31psu | 0–35psu | 30-35psu | 10–25 psu optimum |
| **Alkalinity** | ID | 105–125 mg/L $CaCO_3$ | ID | >80 mg/L |
| **Clarity** | ID | <10mg/L | ID | 30–40cm secchi disk |
| **Hydrogen sulphide** | ID | <0.3 mg/L | <0.1 mg/L | <0.1 mg/L |
| **Iron** | ID | <0.02 mg/L | <1 mg/L | <1.0 mg/L |
| **Spawning temperature** | ID | 28–32˚C | ID | 27–32˚C |

**Indicator:** psu – practical salinity unit, ID – Insufficient data

**Note:** The table provides indicative water requirements for a range of aquaculture species (fresh and/or marine), recognising that not all listed species will occur in a given area, and that potential exists for changes in species under culture.

**Source:** Department of Primary Industries and Fisheries—Water Quality in Aquaculture—DPI Notes April 2004 (as amended) and DAF 2019-2021 technical review and advice.

## 4.4 Irrigation EV water quality objectives

The following tables outline WQOs for irrigation, based on relevant national guidelines. The tables relate to water sourced from Queensland waters, rather than a potable water source or from a treated effluent source, for which a range of national and state guidance material is available. Note that requirements relating to recycled water are addressed under the *Public Health Act 2005*, Public Health Regulation (2018) and *Water Supply (Safety and Reliability) Act 2008*. Further information on recycled water is available from the Queensland Health and Business Queensland websites.

Specific guidelines for irrigation of public spaces with water sourced from Queensland waters are not available, though guidance on microbial quality and managing risks can be taken from the 'Guideline for low-exposure recycled water schemes' (Queensland Health).

Note that at time of publication of this document, national irrigation water quality guidelines are under review as part of ANZG (2018, as amended), and readers should refer to the ANZG website for the most up-to-date version.

The values in the following tables pertain to water suitability for irrigation with regard to criteria such as maintaining soil quality, plant phytotoxicity, minimisation of toxic metal update into food crops, and impact on farm infrastructure (ANZECC 2000, Section 9.2.5.1). These guideline values are not set to account for effects on aquatic ecosystems in source waters, or human health impacts of contact with the water. For these, reference should be made to relevant WQOs for aquatic ecosystem protection, and WQOs for other human use EVs elsewhere in this document. For safety of food for human consumption, refer to Food Standards Australia New Zealand.

The water quality objective values for thermotolerant coliforms in irrigation water are sourced from Section 4.2.3 of ANZECC 2000 Vol 1. As values may have been updated since time of publication, readers should refer to the ANZG 2018 website for the most up-to-date values to be applied as objectives.

**Table 9 Irrigation EV: Water quality objectives for thermotolerant (faecal) coliforms in irrigation waters used for food and non-food crops[1]**

| Intended use | Median values of thermotolerant coliforms (colony forming units—cfu)[2] |
|---|---|
| Raw human food crops in direct contact with irrigation water (e.g. via sprays, irrigation of salad vegetables) | <10 cfu/100 mL |
| Raw human food crops not in direct contact with irrigation water (edible product separated from contact with water, e.g. by peel, use of trickle irrigation); or crops sold to consumers cooked or processed | <1000 cfu/100 mL |
| Pasture and fodder for dairy animals (without withholding period) | <100 cfu/100 mL |
| Pasture and fodder for dairy animals (with withholding period of five days) | <1000 cfu/100 mL |
| Pasture and fodder (for grazing animals except pigs and dairy animals, such as cattle, sheep and goats) | <1000 cfu/100 mL |
| Silviculture, turf, cotton, etc. (restricted public access) | <10 000 cfu/100 mL |

**Notes:**

1. Adapted from ARMCANZ, ANZECC and NHMRC (2000).
2. Refer to AWQG, Volume 1, Section 4.2.3.3 for advice on testing protocols.

**Source**: AWQG, Volume 1, Section 4.2.3.3, Table 4.2.2. Refer to ANZG (2018, as amended) for updates to irrigation guidelines.

The water quality objective values for heavy metals and metalloids for soil cumulative load and irrigation water quality provided in the following table are sourced from Section 9.2.5 of ANZECC 2000 Vol 3. As values may have been updated since the time of publication, readers should refer to the ANZG 2018 website for the most up-to-date values to be applied as objectives.

**Table 10 Irrigation EV: Water quality objectives for heavy metals and metalloids in agricultural irrigation water— soil cumulative contamination loading limit (CCL), long-term trigger value (LTV) and short-term trigger value (STV)[1]**

| Element | Soil cumulative contaminant loading limit (CCL)[2] (kg/ha) | Long-term trigger value (LTV) in irrigation water (up to 100 years) (mg/L) | Short-term trigger value (STV) in irrigation water (up to 20 years) (mg/L) |
|---|---|---|---|
| Aluminium | ND[2] | 5 | 20 |
| Arsenic | 20 | 0.1 | 2.0 |
| Beryllium | ND | 0.1 | 0.5 |
| Boron | ND | 0.5 | Refer to AWQG, Vol 3, Table 9.2.18 |
| Cadmium | 2 | 0.01 | 0.05 |
| Chromium | ND | 0.1 | 1 |
| Cobalt | ND | 0.05 | 0.1 |
| Copper | 140 | 0.2 | 5 |
| Fluoride | ND | 1 | 2 |
| Iron | ND | 0.2 | 10 |
| Lead | 260 | 2 | 5 |
| Lithium | ND | 2.5 (0.075 for citrus crops) | 2.5 (0.075 for citrus crops) |
| Manganese | ND | 0.2 | 10 |
| Mercury | 2 | 0.002 | 0.002 |
| Molybdenum | ND | 0.01 | 0.05 |
| Nickel | 85 | 0.2 | 2 |
| Selenium | 10 | 0.02 | 0.05 |
| Uranium | ND | 0.01 | 0.1 |
| Vanadium | ND | 0.1 | 0.5 |
| Zinc | 300 | 2 | 5 |

**Notes:**

1. Concentrations in irrigation water should be less than the trigger values. Trigger values should only be used in conjunction with information on each individual element and the potential for off-site transport of contaminants (refer AWQG, Volume 3, Section 9.2.5).

2. ND = Not determined; insufficient background data to calculate CCL.

**Source:** AWQG, Volume 1, Section 4.2.6, Table 4.2.10. Refer to ANZG (2018, as amended) for updates to irrigation guidelines.

## 4.5 Stock watering EV water quality objectives

The following water quality objectives for livestock drinking water are sourced from ANZECC 2000 (Vol 1, Section 4.3). The following tables provide a summary of WQOs for a limited range of parameters for stock watering from the full range available in the source materials. The source material should be referred to for all relevant parameters and guideline values. Note that at time of publication of this document, national stock watering guidelines are under review as part of ANZG (2018, as amended), and readers should refer to the ANZG website for the most up-to-date values to be applied as objectives.

The water quality objective values for salinity (Table 11) and metals and metalloids (Table 12) in stock drinking water provided in the following tables are sourced from Sections 4.3.3 and 4.3.4 of ANZECC 2000 Vol 1. As values may have been updated since the time of publication, readers should refer to the ANZG 2018 website for the most up-to-date values to be applied as objectives.

**Table 11 Stock watering EV: Water quality objectives for tolerances of livestock to salinity, as total dissolved solids, in drinking water[1]**

| Livestock | Total dissolved solids (TDS) (mg/L) | | |
|---|---|---|---|
| | No adverse effects on animals expected. | Animals may have initial reluctance to drink or there may be some scouring, but stock should adapt without loss of production | Loss of production and decline in animal condition and health would be expected. Stock may tolerate these levels for short periods if introduced gradually |
| Beef cattle | 0–4000 | 4000–5000 | 5000–10 000 |
| Dairy cattle | 0–2500 | 2500–4000 | 4000–7000 |
| Sheep | 0–5000 | 5000–10 000 | 10 000–13 000[2] |
| Horses | 0–4000 | 4000–6000 | 6000–7000 |
| Pigs | 0–4000 | 4000–6000 | 6000–8000 |
| Poultry | 0–2000 | 2000–3000 | 3000–4000 |

**Notes:**

1. From ANZECC (1992), adapted to incorporate more recent information.
2. Sheep on lush green feed may tolerate up to 13 000 mg/L TDS without loss of condition or production.

**Source:** ANZECC, ARMCANZ (2000), Volume 1, Section 4.3.3.5, Table 4.3.1. Note that a review of stock watering tolerances under the ANZG (2018) may lead to revised values from those in this table. Refer to ANZG (2018, as amended) for further details.

**Table 12 Stock watering EV: Water quality objectives (low risk trigger values) for heavy metals and metalloids in livestock drinking water**

| Metal or metalloid | Trigger value (low risk)[1,2] (mg/L) |
|---|---|
| Aluminium | 5 |
| Arsenic | 0.5 (up to 5[3]) |
| Beryllium | ND |
| Boron | 5 |
| Cadmium | 0.01 |
| Chromium | 1 |
| Cobalt | 1 |
| Copper | 0.4 (sheep), 1 (cattle), 5 (pigs), 5 (poultry) |
| Fluoride | 2 |
| Iron | not sufficiently toxic |
| Lead | 0.1 |
| Manganese | not sufficiently toxic |
| Mercury | 0.002 |
| Molybdenum | 0.15 |
| Nickel | 1 |
| Selenium | 0.02 |
| Uranium | 0.2 |
| Vanadium | ND |
| Zinc | 20 |

**Notes:**

1. Higher concentrations may be tolerated in some situations (further details provided in ANZECC, ARMCANZ (2000), Volume 3, Section 9.3.5).
2. ND = not determined, insufficient background data to calculate.
3. May be tolerated if not provided as a food additive and natural levels in the diet are low.

**Source:** ANZECC, ARMCANZ (2000), Volume 1, Section 4.3.4, Table 4.3.2. Note that a review of stock watering tolerances under the ANZG (2018) may lead to revised values from those in this table. Refer to ANZG (2018, as amended) for further details.

## 4.6 Recreation EV water quality objectives - cyanobacteria

When cyanobacteria are present in large numbers they can present a significant hazard, particularly to primary contact users of waters. Water quality guidelines for cyanobacteria in recreational waters are provided below.

Monitoring and action guidelines relative to cyanobacteria 'alert' levels are summarised below and are explained more fully in the Guidelines for Managing Risks in Recreational Water (NHMRC, 2008). Further details on the process to determine suitability of waters for recreation, relative to historical cyanobacterial levels and susceptibility to cyanobacterial contamination, are contained in sections 6 and 7 of the NHMRC guidelines.

Note: at time of publication the NHMRC guidelines for recreational water quality were under review, and updates may supersede the following. Refer to NHMRC website for latest information and updated guidelines.

**Table 13 Alert levels and corresponding actions for management of cyanobacteria risk in recreational waters**

| Green level surveillance mode | Amber level alert mode | Red level action mode |
|---|---|---|
| ≥ 500 to <5000 cells/mL *M. aeruginosa*<br>or<br>biovolume equivalent of >0.04 to <0.4 $mm^3$/L for the combined total of all cyanobacteria. | ≥ 5000 to <50 000 cells/mL *M. aeruginosa*<br>or<br>biovolume equivalent of ≥ 0.4 to <4 $mm^3$/L for the combined total of all cyanobacteria where a known toxin producer is dominant in the total biovolume[2]<br>or<br>≥ 0.4 to <10 $mm^3$/L biovolume for the combined total of all cyanobacteria where known toxin producers are not present[3]. | **Level 1 guideline**[4]:<br>≥ 10 µg/L total microcystins<br>or<br>≥ 50 000 cells/mL toxic *M. aeruginosa* or biovolume equivalent of ≥ 4 $mm^3$/L for the combined total of all cyanobacteria where a known toxin producer is dominant in the total biovolume.<br><br>**Level 2 guideline**[4]:<br>≥ 10 $mm^3$/L for total biovolume of all cyanobacterial material where known toxins are not present.<br>or<br>cyanobacterial scums are consistently present[5]. |
| Recommended actions for alert levels[1]: | | |
| Regular monitoring. Weekly sampling and cell counts at representative locations in the water body where known toxigenic species are present (i.e. *Microcystis aeruginosa, Anabaena circinalis, Cylindrospermopsis raciborskii, Aphanizomenon ovalisporum, Nodularia spumigena*); or fortnightly for other types including regular visual inspection of water surface for scums. | Notify agencies as appropriate. Increase sampling frequency to twice weekly at representative locations in the water body where toxigenic species are dominant within the alert level definition (i.e. total biovolume) to establish population growth and spatial variability in the water body. Monitor weekly or fortnightly where other types are dominant. Make regular visual inspections of water surface for scums. Decide on requirement for toxicity assessment or toxin monitoring. | Continue monitoring as for (amber) alert mode. Immediately notify health authorities for advice on health risk. ('In action mode the local authority and health authorities warn the public of the existence of potential health risks; for example, through the media and the erection of signs by the local authority.' NHMRC, 2008; 114). Make toxicity assessment or toxin measurement of water if this has not already been done. Health authorities warn of risk to public health (i.e. the authorities make a health risk assessment considering toxin monitoring data, sample type and variability). |

**Notes:**

1. Recommended actions at different alert levels are based on NHMRC, 2008, Table 6.6—fresh waters.
2. The definition of 'dominant' is where the known toxin producer comprises 75 per cent or more of the total biovolume of cyanobacteria in a representative sample.
3. This applies where high cell densities or scums of 'non toxic' cyanobacteria are present i.e. where the cyanobacterial population has been tested and shown not to contain known toxins (mycrocystins, nodularian, cylindrospermopsin or saxitoxin).
4. Health risks and levels: Level 1 is developed to protect against short-term health effects of exposure to cyanobacterial toxins ingested during recreational activity, whereas the Level 2 applies to the circumstance where there is a probability of increased likelihood of non-specific adverse health outcomes,

principally respiratory, irritation and allergy symptoms, from exposure to very high cell densities of cyanobacterial material irrespective of the presence of toxicity or known toxins (NHMRC, 2008;114).

5. This refers to the situation where scums occur at the recreation site each day when conditions are calm, particularly in the morning. Note that it is not likely that scums are always present and visible when there is a high population as the cells may mix down with wind and turbulence and then reform later when conditions become stable.

**Source:** Based on NHMRC (2008) Guideline for Managing Risks in Recreational Water (tables 6.2, 6.6, 7.3).

NHMRC guidelines presented above for biovolume equivalent of toxigenic species are based on potential toxic effects of *M. aeruginosa*, with equivalent cell count/biovolume of other toxigenic species also assumed protective of risk to recreational users. Guidelines for total cyanobacteria biovolume where known toxic species are not dominant are included to protect from hazards of exposure to cyanobacteria at high levels.

Veal et al. (2018) outlines a management approach currently adopted by Seqwater for recreational cyanobacteria water quality based on toxin guideline values, rather than proxy indicators. Where a specific toxin guideline for recreational use was not available, toxin guideline values are based on conservatively scaled guidelines or health alert concentrations for drinking water (NHMRC 2011). Cyanotoxin guideline values are associated with action limits, where different levels of monitoring and action are triggered to minimise risk to recreational users. See Tables 14 and 15 below for management action triggers and toxin guideline values.

**Table 14 Cyanotoxin action limits for recreational waters (Veal et al. 2018, Table 1)**

| Toxin | Unit | Low Level | Medium Level | High Level | Extreme Level |
|---|---|---|---|---|---|
| Microcystin (leucine containing) (LR) mass toxicity equivalents | µg/L | <3 | ≥3 | ≥10 | ≥25 |
| Saxitoxin (carbamate saxitoxin group) (STX) toxicity equivalents | µg/L | <9 | ≥9 | ≥30 | ≥75 |
| Cylindrospermopsin | µg/L | <3 | ≥3 | ≥10 | ≥25 |
| Nodularin | µg/L | <4 | ≥4 | ≥13 | ≥30 |
| Anatoxin-a | µg/L | <3 | ≥3 | ≥10 | ≥25 |

**Table 15 Management actions, triggers, and de-escalation for management of cyanotoxin risk to recreational values (adapted from Veal et al. 2018[1], see publication for details)**

| | Low Level | Medium Level | High Level | Extreme Level |
|---|---|---|---|---|
| Trigger | Total cyanobacteria biovolume ≤1.0mm$^3$L$^{-1}$<br>and Toxins < Low Level | Toxins ≥ Medium Level | Toxins ≥ High Level | Toxins ≥ Extreme Level |
| Monitoring Frequency | Monthly | Fortnightly | Weekly | Weekly |
| Action | Maintain monthly monitoring. | Increased sampling frequency. | Recreational site closed to primary contact.<br>Increased sampling frequency. | Advisory notice against secondary contact recreation. |
| De-escalation | - | 2 consecutive samples < Medium Level | 2 consecutive samples < High Level | 2 consecutive samples < Extreme Level |

[1] Veal, C.J., Neelamraju, C., Wolff, T., Watkinson, A., Shillito, D. and Canning, A. 2018. Managing cyanobacterial toxin risks to recreational users: a case study of inland lakes in south east Queensland. Water Science and Technology: Water Supply 18.5: 1719-1726. Low level biovolume trigger of ≤1.0mm$^3$L$^{-1}$ based on SEQwater advice, June 2022

The NHMRC (2008) also provides cyanobacteria recreational use guidelines for coastal and estuarine waters which are relevant for southeast Queensland. These guidelines outline monitoring and action requirements relative to cyanobacteria 'alert' levels and are summarised below in Table 16. Further details on the process to determine suitability of waters for recreation, relative to historical cyanobacterial levels and susceptibility to cyanobacterial contamination, are contained in sections 6 and 7 of the NHMRC guidelines.

Note: at time of publication the NHMRC guidelines for recreational water quality were under review, and updates may supersede the following. Refer to NHMRC website for latest information and updated guidelines.

## Table 16 Coastal and estuarine recreational waters: alert levels and corresponding actions for management of cyanobacteria risks

| Green level surveillance mode[1] | Amber level alert mode[1] | Red level action mode[1] |
|---|---|---|
| **Coastal and estuarine waters** | | |
| *Karenia brevis* | | |
| ≤ 1 cell/mL | > 1 – < 10 cells/mL | ≥ 10 cells/mL |
| *Lyngbya majuscula, Pfiesteria* spp. | | |
| History but no current presence of organism | Present in low numbers | Present in high numbers. (For *Lyngbya majuscula* this involves the relatively widespread visible presence of dislodged algal filaments in the water and washed up onto the beach) |
| *Nodularia spumigena*: See NHMRC, Chapter 6 (Cyanobacteria and algae in fresh water) for details. | | |

**Notes:**

1. Recommended actions at different alert levels are outlined below (based on NHMRC, 2008, Table 6.6—fresh waters. Similar actions are outlined for coastal/estuarine waters in NHMRC Table 7.6):
   a. **Green**: Regular monitoring. Weekly sampling and cell counts at representative locations in the water body where known toxigenic species are present (i.e. *Microcystis aeruginosa, Dolichospermum circinalis, Raphidiopsis raciborskii, Aphanizomenon ovalisporum, Nodularia spumigena*); or fortnightly for other types including regular visual inspection of water surface for scums.
   b. **Amber**: Notify agencies as appropriate. Increase sampling frequency to twice weekly at representative locations in the water body where toxigenic species (above) are dominant within the alert level definition (i.e. total biovolume) to establish population growth and spatial variability in the water body. Monitor weekly or fortnightly where other types are dominant. Make regular visual inspections of water surface for scums. Decide on requirement for toxicity assessment or toxin monitoring.
   c. **Red**: Continue monitoring as for (amber) alert mode. Immediately notify health authorities for advice on health risk. ('In action mode the local authority and health authorities warn the public of the existence of potential health risks; for example, through the media and the erection of signs by the local authority.' NHMRC, 2008; 114). Make toxicity assessment or toxin measurement of water if this has not already been done. Health authorities warn of risk to public health (i.e. the authorities make a health risk assessment considering toxin monitoring data, sample type and variability).
2. The definition of 'dominant' is where the known toxin producer comprises 75 per cent or more of the total biovolume of cyanobacteria in a representative sample.
3. This applies where high cell densities or scums of 'non toxic' cyanobacteria are present i.e. where the cyanobacterial population has been tested and shown not to contain known toxins (mycrocystins, nodularian, cylindrospermopsin or saxitoxin).
4. Health risks and levels: Level 1 is developed to protect against short-term health effects of exposure to cyanobacterial toxins ingested during recreational activity, whereas the Level 2 applies to the circumstance where there is a probability of increased likelihood of non-specific adverse health outcomes, principally respiratory, irritation and allergy symptoms, from exposure to very high cell densities of cyanobacterial material irrespective of the presence of toxicity or known toxins (NHMRC, 2008;114).
5. This refers to the situation where scums occur at the recreation site each day when conditions are calm, particularly in the morning. Note that it is not likely that scums are always present and visible when there is a high population as the cells may mix down with wind and turbulence and then reform later when conditions become stable.

**Source:** Based on NHMRC (2008) Guideline for Managing Risks in Recreational Water (tables 6.2, 6.6, 7.3).

**References**

Veal, C.J., Neelamraju, C., Wolff, T., Watkinson, A., Shillito, D. and Canning, A. 2018. Managing cyanobacterial toxin risks to recreational users: a case study of inland lakes in south east Queensland. Water Science and Technology: Water Supply 18.5: 1719-1726

## 4.7 Recreation EV water quality objectives – microbial trigger values

Microbial trigger values were developed by Healthy Waterways in 2014 (now Healthy Land and Water) under the Healthy Waterplay program. These trigger values are based on the categories of the NHMRC Guidelines for Managing Risk in Recreational Water (2008), and acceptable levels of risk for recreational waters.

When managing risks in recreational waters, the NHMRC Guidelines suggest an appropriate management approach is to classify sites based on identified pollution sources and real time predictors of contamination, which include microbial analyses. The NHMRC Guidelines provide a framework for determining a Recreational Waterway Suitability Grade of recreational water by a combination of sanitary inspection and microbial water quality assessment. The NHMRC Guidelines focus on the long-term categorisation and management of recreational waters and do not provide guidance on assessing a site at a particular point in time based on single microbial sample results, nor on short-term management actions in response to single high result microbial samples. As routine microbial monitoring, site classification, or other investigations often involve collection of a single sample per site, microbial trigger values are needed to determine when such individual results warrant acute management response actions in order to reduce immediate health risk from recreational waterway use.

Microbial trigger values were chosen to indicate the need for further investigation into causes of potentially harmful levels of pathogens at a reasonable level of public health concern; and to prompt additional public health risk mitigation, if necessary. The trigger values (outlined in the section below) are based on rationale derived from the categories set out in the Australian Government's National Health and Medical Research Council Guidelines for Managing Risk in Recreational Water, 2008. The trigger values presented herein are recommended for fresh, estuarine, and marine waters in southeast Queensland.

### 4.7.1 Microbial trigger values for fresh, estuarine, and coastal waters

For both primary and secondary contact use of recreational waterways, respective one-off (single sample) microbial trigger values are recommended. These trigger values indicate when microbial indicator bacteria concentrations are sufficiently elevated to warrant either further investigation or action to reduce the risk of potential illness as a result of recreational use of a waterway.

<u>Warning Trigger</u>

The first one-off (single sample) value, known as the warning trigger, triggers intensive daily resampling and investigation within 24 h of receiving results:

- For primary contact this trigger value is equal to or greater than 200 enterococci per 100 mL
- For secondary contact this trigger value is equal to or greater than 1000 enterococci per 100 mL

<u>Action Trigger</u>

The second one-off (single sample) value, known as the action trigger, triggers immediate temporary closure of the recreational water area:

- For primary contact this trigger is equal to or greater than 500 enterococci per 100 mL.

<u>Additional Considerations:</u>

<u>Primary Contact</u>: If the response to the primary contact warning trigger results in three consecutive days where the counts are between 201-500 enterococci per 100 mL then the response should be elevated to an action trigger response and the site should be closed to primary contact recreation. Sites should remain closed to primary contact recreation until sampling results return to less than 200 enterococci per 100 mL for three consecutive samples. In the circumstance where the responsible agent has a thorough understanding of the

recreational site, including understanding the catchment hydrology coupled with adequate monitoring data, and hence can justify reopening after two consecutive samples then this is deemed appropriate management.

Secondary Contact: If the response to the secondary contact warning trigger results in counts remaining equal to or greater than 1000 enterococci per 100 mL then the responsible agent should complete the secondary contact risk assessment matrix (provided in Appendix 2) to assess the risk to the recreational user and determine if a temporary site closure is necessary.

# 5 Ways to improve water quality

The following documents are relevant in considering ways to improve water quality in the South East Queensland region. The document list below is additional to the plans, guidelines and other sources referred to in previous sections, and is provided for information only.

**Local and regional planning**

- Council planning schemes and supporting codes, policies, available from council websites
- Resilient Rivers Initiative: SEQ Catchment Action Plans
- South East Queensland Regional Plan 2017 (ShapingSEQ)
- South East Queensland Natural Resource Management Plan 2009-2031
- Development guidelines: Water quality management in drinking water catchments (Seqwater)

**State plans, policies, guidelines, agreements etc**

- State Planning Policy (state interest – water quality)
- Queensland Coastal Management Plan
- Queensland Water Plans under the *Water Act 2000*

**Water quality guidelines**

- Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZG)
- Queensland Water Quality Guidelines (QWQG)
- Queensland Monitoring and Sampling Manual

**Other supporting technical information**

- Information on PFAS in Queensland, including access to PFAS national environmental management plan
- Salinity Management Handbook – available on the Queensland Government Publications website
    - Chapter 10 – Waters
    - Chapter 11 – Water Quality
- Soil conservation guidelines for Queensland – available on the Queensland Government Publications website
    - Chapter 10 – Land management on flood plains
    - Chapter 11 – Stream stability
    - Chapter 13 – Gully Erosion
- Department of Environment and Science, Queensland (2021) Treatment systems, Wetland*Info* website, accessed 18 June 2022.
- Riparian Design Guidelines to Inform the Ecological Repair of Urban Waterways (2017), Beesley LS, Middleton J, Gwinn DC, Pettit N, Quinton B and Davies PM, Melbourne, Australia: Cooperative Research Centre for Water Sensitive Cities.
- Guidelines for Riparian Filter Strips for Queensland Irrigators, CSIRO Land and Water, September 1999
- Fish habitat guidelines available from the DAF website, including Fisheries guidelines for conducting an inventory of instream structures in coastal Queensland, 2010 (and other Fisheries Queensland fish habitat guidelines (FHG 001 – FHG 006) referred to within).
- Healthy Waterways Incorporated – Water by Design: resources and information available on the Water by Design website

# 6 Dictionary

**AMTD** means the adopted middle thread distance which is the distance in kilometres, measured along the middle of a watercourse, that a specific point in the watercourse is from the watercourse's mouth or junction with the main watercourse (definition based on Water Regulation 2002).

**ANZECC** means the Australian and New Zealand Environment and Conservation Council.

**ANZECC Guidelines** mean the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (recently updated to become ANZG, 2018), prepared by the Australian and New Zealand Environment and Conservation Council (ANZECC) and the Agriculture and Resource Management Council of Australia and New Zealand (ARMCANZ).

**Aquatic ecosystem** (defined in the ANZG) any watery environment from small to large, from pond to ocean, in which plants and animals interact with the chemical and physical features of the environment.

**Aquatic ecosystem** (defined in the EPP (Water and Wetland Biodiversity)) means a community of organisms living within or adjacent to water, including riparian or foreshore areas.

**Basin** means the basin name and number provided by Geoscience Australia, Canberra (3rd edition, 2004).

**Biological Integrity** (defined in the EPP (Water and Wetland Biodiversity)) for water or a wetland, means the ability of the water or wetland to support and maintain a balanced, integrative, adaptive community of organisms having a species composition, diversity and functional organisation comparable to that of the natural habitat of the locality in which the water or wetland is situated.

**Catchment** means the total area draining into a river, creek, reservoir or other body of water. The limits of a given catchment are the heights of land (such as hills or mountains) separating it from neighbouring catchments. Catchments can be made up of smaller sub-catchments.

**Ecological integrity (health)** (defined in the ANZG) means the 'health' or 'condition' of an ecosystem. The ability of an ecosystem to support and maintain key ecological processes and organisms so that their species compositions, diversity and functional organisations are as comparable as possible to those occurring in natural habitats within a region.

**Environmental value (EV)** means:

(a) a quality or physical characteristic of the environment that is conducive to ecological health or public amenity or safety; or

(b) another quality of the environment identified and declared to be an environmental value under an Environmental Protection Policy or Regulation (e.g. water suitable for swimming in or drinking).

The EVs for water that can be identified for protection are outlined in the accompanying table.

**Queensland waters** (as defined in *Acts Interpretation Act 1954*): means all waters that are a) within the limits of the state; or b) coastal waters of the state.

**Sub-basin** means part of a basin.

**Sub-catchment** means part of a catchment.

**Toxicant** (defined in the ANZG): means a substance capable of producing an adverse response (effect) in a biological system, which may seriously injure structure or function or produce death at sufficiently high concentration.

## Table 17 Environmental values that can be identified for protection

| Environmental values and definitions | ICON (as shown on plans) |
|---|---|
| **Aquatic ecosystem**<br>'A community of organisms living within or adjacent to water, including riparian or foreshore area.' (EPP (Water and Wetland Biodiversity), schedule 2 - Dictionary)<br>The intrinsic value of aquatic ecosystems, habitat and wildlife in waterways and riparian areas, for example, biodiversity, ecological interactions, plants, animals, key species (such as turtles, platypus, seagrass and dugongs) and their habitat, food and drinking water.<br>Waterways include perennial and intermittent surface waters, groundwaters, tidal and non-tidal waters, lakes, storages, reservoirs, dams, wetlands, swamps, marshes, lagoons, canals, natural and artificial channels and the bed and banks of waterways.<br>(This EV incorporates the 'wildlife habitat' EV used in the South East Queensland Regional Water Quality Management Strategy). See below for more details on aquatic ecosystems, based on the EPP (Water and Wetland Biodiversity). | |
| **High ecological/conservation value waters**<br>'Waters in which the biological integrity of the water is effectively unmodified or highly valued.' (EPP (Water and Wetland Biodiversity), schedule 2). | None |
| **Slightly disturbed waters**<br>'Waters that have the biological integrity of high ecological value waters with slightly modified physical or chemical indicators but effectively unmodified biological indicators.' (EPP (Water and Wetland Biodiversity), schedule 2). | None |
| **Moderately disturbed waters**<br>'Waters in which the biological integrity of the water is adversely affected by human activity to a relatively small but measurable degree.' (EPP (Water and Wetland Biodiversity), schedule 2). | None |
| **Highly disturbed waters**<br>'Waters that are significantly degraded by human activity and have lower ecological value than high ecological value waters or slightly or moderately disturbed waters.' (EPP (Water and Wetland Biodiversity), schedule 2). | None |

| Environmental values and definitions | ICON (as shown on plans) |
|---|---|
| **Irrigation**<br>Suitability of water supply for irrigation, for example, irrigation of crops, pastures, parks, gardens and recreational areas. | |
| **Farm water supply/use**<br>Suitability of domestic farm water supply, other than drinking water. For example, water used for laundry and produce preparation. | |
| **Stock watering**<br>Suitability of water supply for production of healthy livestock. | |
| **Aquaculture**<br>Health of aquaculture species and humans consuming aquatic foods (such as fish, molluscs and crustaceans) from commercial ventures. | |
| **Human consumers of aquatic foods**<br>The suitability of the water for producing aquatic foods (fish, shellfish, other animals, plants) that are safe and suitable for human consumption; and having aquatic foods that are safe and suitable for human consumption taken from it. | |
| **Primary recreation**<br>Means a use that involves the following types of contact with the water—full body contact, frequent immersion by the face and trunk, frequent contact with spray by the face where it is likely some water will be swallowed or inhaled, or come into contact with ears, nasal passages, mucous membranes or cuts in the skin. Examples–diving, swimming, surfing (EPP (Water and Wetland Biodiversity), section 6). | |
| **Secondary recreation**<br>Means a use that involves the following types of contact with the water—contact in which only the limbs are regularly wet, and other contact, including the swallowing of water, is unusual (examples—boating, fishing, wading) or occasional inadvertent immersion resulting from slipping or being swept into the water by a wave. (EPP (Water and Wetland Biodiversity), section 6). | |
| **Visual recreation**<br>Means a use that does not ordinarily involve any contact with the water—for example angling from the shore, sunbathing near water (EPP (Water and Wetland Biodiversity), section 6). | |

| Environmental values and definitions | ICON (as shown on plans) |
|---|---|
| **Drinking water supply**<br>Suitability of the water for supply as drinking water having regard to the level of treatment of the water. | |
| **Industrial use**<br>Suitability of water supply for industrial purposes, for example, food, beverage, paper, petroleum and power industries, mining and minerals refining/processing. Industries usually treat water supplies to meet their needs. | |
| **Cultural and spiritual values**<br>Means scientific, social or other significance to the present generation or past or future generations, including Aboriginal people or Torres Strait Islanders (EPP (Water and Wetland Biodiversity)), section 6), for example:<br>• custodial, spiritual, cultural and traditional heritage, hunting, gathering and ritual responsibilities<br>• symbols, landmarks and icons (such as waterways, turtles and frogs)<br>• lifestyles (such as agriculture and fishing). | |

# K.20 ASBESTOS CLEARANCE CERITIFICATES

# Asbestos Clearance Certificate

## 754-BNEEN282781-1 DVA GREENSLOPES REMEDIATION

## 114 NEWDEGATE STREET, GREENSLOPES QLD

31st October 2023
**Report reference number:** 754-BNEEN282781-1 Final ACC 25102023

## PREPARED FOR

**Department of Veteran Affairs**

## PREPARED BY

**Tetra Tech Coffey Pty Ltd**
Level 5, 12 Creek Street,
Brisbane QLD 4000 Australia
p: +61 7 3239 9300
ABN 55 139 460 521

## QUALITY INFORMATION

### Revision history

| Revision | Description | Date | Author | Reviewer | Approver |
|---|---|---|---|---|---|
| R001 | Asbestos Clearance Certificate | 25/10/2023 | Patricy Cortes | Aaron Holmes | Aaron Holmes |

### Distribution

| Report Status | No. of copies | Format | Distributed to | Date |
|---|---|---|---|---|
| R001 | 1 | PDF | Department of Veteran Affairs | 31/10/2023 |

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## APPENDICES

**APPENDIX A: LIMITATIONS** ..... 3
**APPENDIX B: PHOTOGRAPHS** ..... 4
**APPENDIX C: NATA ACCREDITED LABORATORY CERTIFICATE** ..... 5

# 1. SITE DETAILS

**Client and Site Details**

| | |
|---|---|
| **Client Company** | Department of Veteran Affairs |
| **Client Contact** | Dave Binny |
| **Client Address** | – |
| **Inspection Site (the site)** | 114 Newdegate Street, Greenslopes QLD |
| **Inspection Date** | 25/10/2023 |
| **Removal Contractor** | Enviropacific Services |
| **Inspected By:** | Patricy Cortes LAA001543 |

# 2. OBJECTIVE

Tetra Tech Coffey Pty Ltd (Tetra Tech) was requested by Dave Binny of Department of Veteran Affairs to attend the above-mentioned site to conduct asbestos control air monitoring and associated clearance inspection as part of the asbestos containing soil removal as described in **Section 4** of this report.

The objective of this clearance inspection is to assess whether the works conducted by Enviropacific Services at the site were in accordance with the standard described in section '3.10: Clearance inspections' of the *Code of Practice: How to Safely Remove Asbestos*.

Please note that all activities and services provided by Tetra Tech are subject to the Scope and Limitations contained within this report.

# 3. METHODOLOGY

Tetra Tech's clearance inspection was conducted to the standard described in section '3.10: Clearance inspections' of the *Code of Practice: How to Safely Remove Asbestos* and in accordance with in-house method WIFS3.

As part of the clearance process, Tetra Tech conducted a visual inspection and control air monitoring.

Airborne asbestos fibre monitoring was conducted in general accordance with:

- QLD Work Health & Safety Regulation, 2011; and
- Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)].

# 4. SCOPE OF WORKS

The removal works at the site comprised the removal of asbestos-containing soil across the site soil surface.

Please Note: This clearance certificate refers only to the area and materials outlined above at the time of the inspection, which will hereby be referred to as the 'work area'. This clearance is specific to the soil surface area only. Any other asbestos containing materials which may be present at site were not included in this scope of works.

# 5. RESULTS

## 5.1 VISUAL INSPECTION

Tetra Tech inspected the work area on the 25th October 2023 and observed that the removal works to the soil surface areas (only) had been satisfactorily completed, and no visible asbestos debris associated with the above listed works remained in the work area at the time of the inspection.

## 5.2 ASBESTOS AIR MONITORING

Tetra Tech conducted control airborne asbestos fibre monitoring adjacent to the work area during the works, in conjunction with a visual inspection within the work area upon completion of the works.

The results from the air monitoring are described in the attached NATA laboratory report (see attached report in Appendix C). It is noted that the results of the control and clearance air monitoring are less than the laboratory detection limit (<0.01 f/mL).

# 6. CONCLUSION

Based on the findings of Tetra Tech's visual clearance inspection and the results returned from the air monitoring analysis, it is Tetra Tech's opinion that the removal works conducted by Enviropacific Services have been completed to a satisfactory standard and the work area is now suitable for reoccupation.

# APPENDIX A: LIMITATIONS

Tetra Tech has conducted work concerning the environmental status of the property which is the subject of this report and has prepared this report on the basis of that assessment.

The work was conducted, and the report has been prepared, in response to specific instructions from the client to whom this report is addressed and in reliance on certain data and information made available to Tetra Tech. The analyses, evaluations, opinions and conclusions presented in this report are based on those instructions, requirements, data or information, and they could change if such instructions etc. are in fact inaccurate or incomplete.

Investigations have been based on inspections conducted in accordance with relevant guidelines and standards, and normal industry practice, having regard to the client instructions, and interpretations of conditions are based on the data from those inspections and, where relevant and conducted, testing. To the best of our knowledge, they represent a reasonable interpretation of the condition of the site as able to be inspected. However, there can be no guarantee that conditions at specific points not able to be inspected do not vary from the interpreted conditions based on the available observations/data.

In order to determine actual environmental conditions at specific intermediate points away from those observed/tested to date, those specific points would need to be inspected/tested.

It is also noted that sub-surface conditions can change with time, and the report is based on data that was gathered at the time of the report. Tetra Tech will not update the report and has not taken into account events occurring after the time its assessment was conducted.

This clearance certificate is not a confirmation that asbestos-containing materials have been removed in their entirety from the site and only relates to the work area and those works specifically described in **Section 4** of this clearance certificate at the time of inspection and subject to the exclusions noted, including; inaccessible areas beyond safety boundaries, areas limited by WHS/height restrictions, areas deemed too small to physically access and any other asbestos containing materials which were not a part of this scope of works.

Should any other materials suspected to be hazardous be found at the site, then works should cease and a suitably trained hazardous materials hygienist should be engaged to sample the material.

# APPENDIX B: PHOTOGRAPHS

**Photo 1:** Work area following removal works.

**Photo 2:** Work area following removal works.

**Photo 3:** Work area following removal works.

**Photo 4:** Work area following removal works.

**Photo 5:** Work area following removal works.

**Photo 6:** Work area following removal works.

# APPENDIX C: NATA ACCREDITED LABORATORY CERTIFICATE

# Analytical Report

Accredited for compliance with
ISO/IEC 17025 – Testing
Accreditation No:2220

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:** GPO Box 9998, Brisbane QLD 4001

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 25/10/2023

**Date Analysed:** 25/10/2023

**Date Authorised** 25/10/2023

**Sampled by:** Patricy Cortes

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Laboratory
Level 20, Tower B, Citadel Towers 799 Pacific Highway
Chatswood NSW 2067

**Approved Counter:** Patricy Cortes **Approved Signatory:** Richard Wilkinson

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| DH635254 | Ext, S elevation, adjacent Headfort st, on bollard | 0 | 100 | <0.01 |
| DH635245 | Excavator cab, right hand side of front windscreen, on handle | 0 | 100 | <0.01 |
| DI467172 | Ext, N elevation, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DH635225 | Ext, E elevation, adjacent to neighbouring properties, on fencing | 0 | 100 | <0.01 |
| DI466617 | Ext, W elevation, adjacent to Newdegate Street, on fencing | 0 | 100 | <0.01 |
| FB | - | 0 | 100 | - |

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*Level 19, Tower B, Citadel Towers, 799 Pacific Hwy, Chatswood, NSW 2067 Australia*
*T (+61) (2) 9406 1000 F (+61) (2) 9406 1004 coffey.com*

# Asbestos Clearance Certificate

## 754-BNEEN282781-1 DVA GREENSLOPES REMEDIATION

## 114 NEWDEGATE STREET, GREENSLOPES QLD

15th December 2023

**Report reference number:** 754-BNEEN282781-1 Northern Boundary Strip Soil Surface ACC 14122023

## PREPARED FOR

**Department of Veteran Affairs**
GPO Box 9998,
Brisbane QLD 4001 Australia

## PREPARED BY

**Tetra Tech Coffey Pty Ltd**
Level 5, 12 Creek Street,
Brisbane QLD 4000 Australia
p: +61 7 3239 9300
ABN 55 139 460 521

## QUALITY INFORMATION

### Revision history

| Revision | Description | Date | Author | Reviewer | Approver |
|---|---|---|---|---|---|
| R00 | Asbestos Clearance Certificate | 15/12/2023 | Patricy Cortes | Aaron Holmes | Aaron Holmes |

### Distribution

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| R00 | 1 | PDF | Department of Veteran Affairs | 15/12/2023 |

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## APPENDICES

**APPENDIX A: LIMITATIONS** ..... 3

**APPENDIX B: PHOTOGRAPHS** ..... 4

**APPENDIX C: NATA ACCREDITED LABORATORY CERTIFICATE** ..... 5

# 1. SITE DETAILS

**Client and Site Details**

| | |
|---|---|
| **Client Company** | Department of Veteran Affairs |
| **Client Contact** | Dave Binny |
| **Client Address** | GPO Box 9998, Brisbane QLD 4001 Australia |
| **Inspection Site (the site)** | 114 Newdegate Street, Greenslopes QLD |
| **Inspection Date** | 14/12/2023 |
| **Removal Contractor** | Enviropacific Services |
| **Inspected By:** | Patricy Cortes LAA001543 |

# 2. OBJECTIVE

Tetra Tech Coffey Pty Ltd (Tetra Tech) was requested by Dave Binny of Department of Veteran Affairs to attend the above-mentioned site to conduct asbestos control air monitoring and associated clearance inspection as part of the asbestos containing soil removal works as described in **Section 4** of this report.

The objective of this clearance inspection is to assess whether the works conducted by Enviropacific Services at the site were in accordance with the standard described in section '3.10: Clearance inspections' of the *Code of Practice: How to Safely Remove Asbestos*.

Please note that all activities and services provided by Tetra Tech are subject to the Scope and Limitations contained within this report.

# 3. METHODOLOGY

Tetra Tech's clearance inspection was conducted to the standard described in section '3.10: Clearance inspections' of the *Code of Practice: How to Safely Remove Asbestos* and in accordance with in-house method WIFS3.

As part of the clearance process, Tetra Tech conducted a visual inspection and control air monitoring.

Airborne asbestos fibre monitoring was conducted in general accordance with:

- QLD Work Health & Safety Regulation, 2011; and
- Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)].

# 4. SCOPE OF WORKS

The removal works at the site comprised the removal of asbestos-containing of the Northern Boundary Strip of the site soil surface.

Please Note: This clearance certificate refers only to the area and materials outlined above at the time of the inspection, which will hereby be referred to as the 'work area'. Any other asbestos containing materials which may be present at site were not included in this scope of works.

# 5. RESULTS

## 5.1 VISUAL INSPECTION

Tetra Tech inspected the work area on the 14th December 2023 and observed that the environmental clean works had been satisfactorily completed, and no visible asbestos debris associated with the above listed removal works remained in the work area at the time of the inspection.

## 5.2 ASBESTOS AIR MONITORING

Tetra Tech conducted control airborne asbestos fibre monitoring adjacent to the work area during the removal works, in conjunction with a visual inspection within the work area upon completion of the works.

The results from the air monitoring are described in the attached NATA laboratory report (see attached report in Appendix C). It is noted that the results of the control monitoring are less than the laboratory detection limit (<0.01 f/mL).

# 6. CONCLUSION

Based on the findings of Tetra Tech's visual clearance inspection and the results returned from the air monitoring analysis, it is Tetra Tech's opinion that the environmental clean works conducted by Enviropacific Services have been completed to a satisfactory standard.

# APPENDIX A: LIMITATIONS

Tetra Tech has conducted work concerning the environmental status of the property which is the subject of this report and has prepared this report on the basis of that assessment.

The work was conducted, and the report has been prepared, in response to specific instructions from the client to whom this report is addressed and in reliance on certain data and information made available to Tetra Tech. The analyses, evaluations, opinions and conclusions presented in this report are based on those instructions, requirements, data or information, and they could change if such instructions etc. are in fact inaccurate or incomplete.

Investigations have been based on inspections conducted in accordance with relevant guidelines and standards, and normal industry practice, having regard to the client instructions, and interpretations of conditions are based on the data from those inspections and, where relevant and conducted, testing. To the best of our knowledge, they represent a reasonable interpretation of the condition of the site as able to be inspected. However, there can be no guarantee that conditions at specific points not able to be inspected do not vary from the interpreted conditions based on the available observations/data.

In order to determine actual environmental conditions at specific intermediate points away from those observed/tested to date, those specific points would need to be inspected/tested.

It is also noted that sub-surface conditions can change with time, and the report is based on data that was gathered at the time of the report. Tetra Tech will not update the report and has not taken into account events occurring after the time its assessment was conducted.

This clearance certificate is not a confirmation that asbestos-containing materials have been removed in their entirety from the site and only relates to the work area and those works specifically described in **Section 4** of this clearance certificate at the time of inspection and subject to the exclusions noted, including; inaccessible areas beyond safety boundaries, areas limited by WHS/height restrictions, areas deemed too small to physically access and any other asbestos containing materials which were not a part of this scope of works.

Should any other materials suspected to be hazardous be found at the site, then works should cease and a suitably trained hazardous materials hygienist should be engaged to sample the material.

# APPENDIX B: PHOTOGRAPHS

**Photo 1:** Work area following removal works.

**Photo 2:** Work area following removal works.

**Photo 3:** Work area following removal works.

**Photo 4:** Work area following removal works.

# APPENDIX C: NATA ACCREDITED LABORATORY CERTIFICATE

# Analytical Report

Accredited for compliance with
ISO/IEC 17025 – Testing
Accreditation No:2220

**Job No:** 754-BNEEN282781-1

**Client:** Department of Veteran Affairs

**Client Address:**

**Contact:** Dave Binny

**E-mail:** davebinny@dva.com

**Date Sampled:** 14/12/2023

**Date Analysed:** 14/12/2023

**Date Authorised** 14/12/2023

**Sampled by:** Patricy Cortes

**Site:** 114 Newdegate Street, Greenslopes QLD

**Airborne Fibre Monitoring**

**Test Method:** Dust particulates collected and filters examined in accordance with The Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres NOHSC:3003 (2005) and in-house method WILAB 2. Fibres counted may include various substances i.e., not necessarily asbestos.

**Analysed At:** Tetra Tech Coffey Pty Ltd Laboratory
Level 20, Tower B, Citadel Towers 799 Pacific Highway
Chatswood NSW 2067

**Approved Counter:** Patricy Cortes **Approved Signatory:** Matthew Tang

| Sample# | Sample Location(s) | Fibre Count | Fields | Result (Fibres/ml) |
|---|---|---|---|---|
| A5 | SW of work area, adjacent site shed, on door | 0 | 100 | <0.01 |
| A3 | E of work area, on fencing | 0 | 100 | <0.01 |
| A4 | NE of work area, on fencing | 0 | 100 | <0.01 |
| A1 | W of work area, on fencing | 0 | 100 | <0.01 |
| A2 | NW of work area, on fencing | 0 | 100 | <0.01 |
| FB | - | 0 | 100 | - |

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# K.21 MW01 FIELD RECORDS

TETRA TECH COFFEY

# Environmental Field Log - Monitoring Well

**Well No.** MW01

Sheet 1 of 2

| | | | | | |
|---|---|---|---|---|---|
| Client: | DVA | DVA | | Project No. | 754-BNEEN234351 |
| Project: | GREENSLOPES | DVA Greenslopes | | Date started: | 17/11/21 |
| Site Address: | | | | Date completed: | " " |
| Casing type: | PVC | Drill model/mounting: | GEOPROBE 7822DT | Screen interval: | 6.0 - 3.0 |
| Hole dia (mm): | 150 | Drill company: | PDS | Sand interval: | 6.0 - 2.5 |
| Gatic/stand up?: | G | Driller name: | P. BRINTON | Bentonite interval: | 2.5 - 1.5 |
| Logged by: | MP | Checked by: | Driller licence: BCL: | Grout interval: | 1.5 - 0.0 |

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

| Drilling information | | | | | | | Material substance | | | | Additional observations |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Method | Support | Water | construction details | sample ID / type / tests | PID (ppm) | depth (m) | USCS | MATERIAL DESCRIPTION (secondary) PRIMARY soil name, primary component characteristics, colour, secondary component characteristics, minor components | moisture condition | consist. / density | Comments (including Evidence of Contamination, Structure, Geological Unit & Additional Observations) |
| | | | | 0.1 | | | | FINE GRAINED MED/DARK GREY SILTY SAND TOPSOIL | SM | S/L | |
| | | | | 0.25 | | | | POORLY SORTED SILTY SAND WITH DARK GREY/BLACK ASH THROUGHOUT | SM | S/L | |
| | | | | 0.5 | | 0.5 | | MED BROWN FINE GRAIN SILTY SAND WITH OCC COARSER GRAINS | SM | S/L | |
| W/A | | | | 0.75 * | | | | MED PLASTIC MED RED/ORANGE BROWN SILTY CLAY WELL SORTED | V/SM | F/MD | * QC01/QC02 @ 0.75 |
| | | | | 1.0 | | 1.0 | | | | | |
| | | | | ~~1.5~~ | | | | | | | |
| | | | | 1.5 * | | 1.5 | | AS ABOVE - HARDER WITH GRAVELS - LOW PLASTIC | V/SM | ST/D | |
| | | | | 2.0 | | 2.0 | | | | | |
| PT/~~SA~~ A | | | | 2.5 | | 2.5 | | MED/LIGHT BROWN GRAVELLY (SUB ANGULAR) SILTY CLAY - WEATHERED BEDROCK | D | ST/MD | |
| | | | | 3.0 | | 3.0 | | HARD LOW PLASTIC MED BROWN SILTY CLAY WITH OCC RED BROWN PATCHES | D | ST/D | |
| | | | | 3.5 | | 3.5 | | TRANSITION TO WEATHERED BEDROCK | D | ST/MD | |

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

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

**Support**
C casing
DF drilling fluid
N none

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

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

**Grainsize**
F fine
M medium
C coarse

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

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

**Moisture**
D dry
M moist
W wet

**Colour**
R red
W white
Gy grey
P purple
Y yellow
Bl Black
Br Brown
O Orange
Gr Green
B Blue

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

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

TETRA TECH COFFEY

# Environmental Field Log - Monitoring Well

**Well No.** MW01

Sheet 2 of 2

| | | | | | |
|---|---|---|---|---|---|
| Client: | DVA | | | Project No. | 754-BNEEN234351 |
| Project: | *DVA Greenslopes* | | | Date started: | |
| Site Address: | | | | Date completed: | |
| Casing type: | | Drill model/mounting: | | Screen interval: | |
| Hole dia (mm): | | Drill company: | | Sand interval: | |
| Gatic/stand up?: | | Driller name: | | Bentonite interval: | |
| Logged by: | Checked by: | Driller licence: | BCL: | Grout interval: | |

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

| Drilling information | | | | | | | Material substance | | | | Additional observations |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Method | Support | Water | construction details | sample ID / type / tests | PID (ppm) | depth (m) | USCS | MATERIAL DESCRIPTION (secondary) PRIMARY soil name, primary component characteristics, colour, secondary component characteristics, minor components | moisture condition | consist. / density | Comments (including Evidence of Contamination, Structure, Geological Unit & Additional Observations) |
| PT/SSA | | | | | | | | MED YELLOW/BROWN | | | |
| | | | | 4.0 | | 4.0 | | | | | |
| SSA | | | | | | | | FIRMING WITH DEPTH | D | ST/MD | |
| | | | | 4.5 | | 4.5 | | | | | |
| | | | | | | | | COLOR CHANGE TO LIGHT GREY/BROWN | D | HA/D | |
| | | | | 5.0 | | 5.0 | | | | | |
| | | | | 5.5 | | 5.5 | | | | | |
| | | | | 6.0 | | 6.0 | | | | | |
| | | | | | | | | EOH @ 6.0m | | | |
| | | | | | | | | GAUGING | | | |
| | | | | | | | | * TD TOC 5.975 | | | |
| | | | | | | | | WELL DRY AFTER 45 MINS | | | |

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

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

**Support**
- C casing
- DF drilling fluid
- N none

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

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

**Grainsize**
- F fine
- M medium
- C coarse

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

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

**Moisture**
- D dry
- M moist
- W wet

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

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

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

## Oil / Water Interface Meter

**Instrument** **Interface Meter (30M)**
**Serial No.** **483922**

airmet
Air-Met Scientific Pty Ltd
1300 137 067

| Item | Test | Pass | Comments |
|---|---|---|---|
| **Battery** | Compartment | ✓ | |
| | Capacity | ✓ | |
| | | | |
| | | | |
| **Probe** | Cleaned/Decon. | ✓ | |
| | Operation | ✓ | |
| | | | |
| **Connectors** | Condition | ✓ | |
| | | ✓ | |
| **Tape Check** | Cleaned | ✓ | |
| | Checked for cuts | ✓ | |
| | | | |
| | | | |
| **Instrument Test** | At surface level | ✓ | |
| | | | |
| | | | |
| | | | |
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| | | | |
| | | | |

## *Certificate of Calibration*

This is to certify that the above instrument has been cleaned and tested.

***Calibrated by:*** **Braeden Curtis**

***Calibration date:*** **3/11/2021**

***Next calibration due:*** **2/01/2022**

DAILY FIELD SUMMARY WITH CALIBRATION RECORD

TETRA TECH COFFEY

| | | | |
|---|---|---|---|
| Project name: | DVA | Project Number: | 234351 |
| Field personnel: | MP | Date: | 24/11/21 |
| Project manager: | JW | Page: | 1 of 1 |

| Time | Description of Tasks Undertaken: Include details onsite, all personnel, standby, phone calls) |
|---|---|
| 0845 | - COLLECTED IP FROM AMMIT |
| | |
| 0930 | - ON SITE - HSSE REVIEW |
| | - DIPPED MW01 - DRY |
| 1000 | - OFF SITE |
| | - RETURNED TO OFFICE |
| | - RETURN IP TO AMMIT IN AFTERNOON. |

DVA 95 24/11/21

MW 01

TD 5.985

DRY

## Oil / Water Interface Meter

**Instrument** **Interface Meter (30M)**
**Serial No.** **348741**

Air-Met Scientific Pty Ltd
1300 137 067

| Item | Test | Pass | Comments |
|---|---|---|---|
| Battery | Compartment | ✓ | |
| | Capacity | ✓ | |
| | | | |
| | | | |
| Probe | Cleaned/Decon. | ✓ | |
| | Operation | ✓ | |
| | | | |
| Connectors | Condition | ✓ | |
| | | ✓ | |
| Tape Check | Cleaned | ✓ | |
| | Checked for cuts | ✓ | |
| | | | |
| | | | |
| Instrument Test | At surface level | ✓ | |
| | | | |
| | | | |
| | | | |
| | | | |
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| | | | |

## *Certificate of Calibration*

This is to certify that the above instrument has been cleaned and tested.

***Calibrated by:*** **Siobhan Watts**

***Calibration date:*** **23/11/2021**

***Next calibration due:*** **22/01/2022**

# APPENDIX L: TECHNICAL DOCUMENTS

# L.1 SUPPLEMENTARY INVESTIGATION SAQP

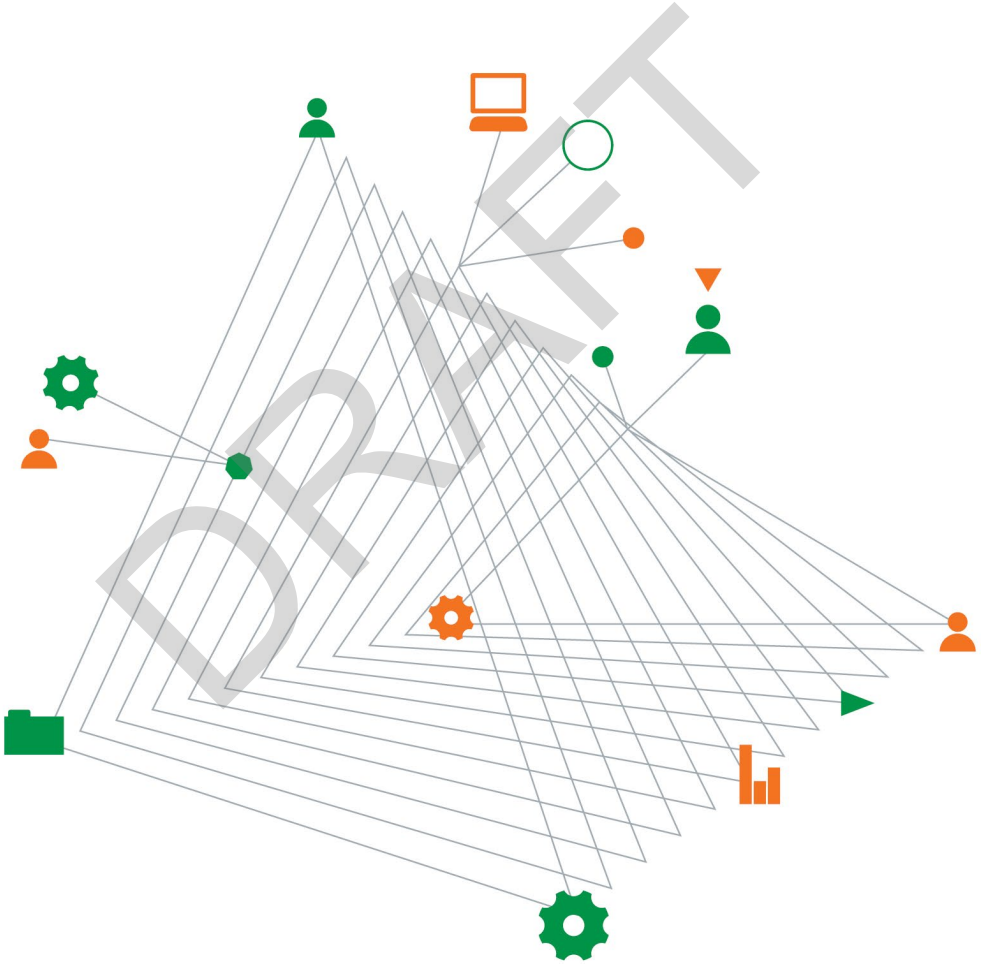
coffey
A TETRA TECH COMPANY

**Department of Veteran Affairs**

# 114 Newdegate Street Greenslopes Remediation Planning

Sampling, Analysis and Quality Plan (SAQP)

19 July 2021




Experience
comes to life
when it is
powered by
expertise

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# 114 Newdegate Street Greenslopes Remediation Planning

Prepared for
Department of Veteran Affairs

Prepared by

Coffey Services Australia Pty Ltd
Level 5, 12 Creek Street
Brisbane QLD 4000 Australia
t: +61 7 3608 2500 f: +61 7 3852 2805

ABN: 55 139 460 521

| | |
|---|---|
| **Project Manager** | Jeremy Wicks<br>Associate Environmental Scientist |

19 July 2021

754-BNEEN282781-SAQP

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# Quality information

## Revision history

| Revision | Description | Date | Author | Reviewer |
|---|---|---|---|---|
| Rev A | Draft SAQP | 19/07/2021 | J Wicks | M Locke |
| Rev B | Draft SAQP | 19/07/2021 | J Wicks | DVA, Site Auditor |
| | | | | |
| | | | | |
| | | | | |

## Distribution

| Report Status | No. of copies | Format | Distributed to | Date |
|---|---|---|---|---|
| Draft Rev B | 1 | PDF | DVA, Site Auditor | 19/07/2021 |
| | | | | |
| | | | | |

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## Appendices

Appendix A  Figures
Appendix B  Tabulated Data

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# 1. Introduction

The Department of Veteran Affairs (DVA) is planning the redevelopment of 114 Newdegate Street, Greenslopes (Lot 123-125 RP46047) ("the Site") for park/community use and pass the Land Title to Brisbane City Council (BCC).

The Site is listed on the Environmental Management Register (EMR) for Hazardous Contaminants as a result of organochlorine pesticides (OCPs) being previously detected in soil. The Site is not subject to a Site Management Plan (SMP) and the EMR listing does not include a Site Suitability Statement[1]. The Site is currently vacant and contains two large buildings with Asbestos Containing Materials (ACM).

Previous investigations of the Site have been completed in 2013 and 2019 and are summarised in Section 3 and Section 4. Previous investigations have confirmed the presence of the OCPs Aldrin + Dieldrin which exceed the Schedule B1 *National Environment Protection (Assessment of Site Contamination) Measure 1999* (NEPM) Health-based Investigation Levels for recreational areas (HIL-C). OCPs are associated with historical application of termite barriers around buildings. Fragments of ACM and asbestos fines have also been reported in soil which exceed NEPM guidelines for recreational areas.

A review of the previous investigations identified data gaps which need to be addressed for the planning of remediation and redevelopment of the Site. These data gaps are summarised in Section 5.

This document provides the Sampling Analysis Quality Plan (SAQP) for investigating the data gaps described in Section 5.

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[1] A Site Suitability Statement is a statement prepared by a Suitably Qualified Person (SQP) which describes the permitted uses of the land, and whether there is a requirement for a SMP. The Site Suitability Statement can also include a statement that the site is 'suitable for any use' (i.e. can be removed from the EMR).

# 2. Site Description

## 2.1. Site Identification

The Site is located on the corner of Newdegate Street and Headfort Street, Greenslopes, Brisbane. The Site is shown in Figure 2-1 below, and the location of the Site is Brisbane is shown in Figure 1, **Appendix A**.

Figure 2-1 114 Newdegate Street, Greenslopes (Image source: Queensland Globe, 2021)

Two buildings are located on the Site and comprise a former Main Hall Building and Accommodation Building (see Figure 2-1). The Site is currently not in use due to the condition of the buildings and the presence of ACM.

Further information on the Site and surrounding land use is summarised in Table 2-1.

Table 2-1: Site Identification Details

| Item | Detail |
|---|---|
| **Site Address** | 114 Newdegate Street, Greenslopes QLD |
| **Lot/Plan Number** | Lot 123 on RP46047<br>Lot 124 on RP46047<br>Lot 125 on RP46047 |

| Item | Detail |
|---|---|
| Current Zoning | NC Neighbourhood Centre[2] |
| Local Council | Brisbane City Council |
| Total Site Area | Approximately 1,933 $m^2$ |
| Site Owner | The site is currently owned by Department of Veterans Affairs. |
| Land Use | The property is currently consisted of disused main hall and accommodation building. |
| Surrounding Land Uses | North – Residential houses and small cafeteria<br>East – Residential houses<br>South – Residential houses<br>West – Health care (Greenslopes Private Hospital) |

## 2.2. Site History

Historical aerial photography shows the Site was cleared land in 1936, and potentially in use for rural purposes (see image below). The site was acquired by the Commonwealth of Australia in 1945 for the development of the Australian Red Cross Centre (RCC). The ARC was developed on the Site in approximately 1945 and is shown in historical aerial imagery from 1946 (see image below).

1936: Brisbane 1936, Run 15, Frame 6251

1946: Brisbane 1946, Run 11A, Frame 34654

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The RCC was built to provide recreational services to military personnel who were patients at the 112th Australian Military Hospital. Post World War II the RRC was used for a similar purpose to for service personnel and veterans. The buildings on the Site were later used for community purposes and to provide temporary accommodation for the families of patients at the Greenslopes Reparation Hospital.[3] The former RCC buildings remain on the Site to the present day. It is not known whether historically there were smaller structures located on the Site which have subsequently been demolished and the source of any fill material used on the Site.

[2] Brisbane City Plan 2014
Neighbourhood centre is a small mix of land uses to service residential neighbourhoods. It includes small-scale convenience shopping, professional offices, community services and other uses that directly support the immediate community.
[3] https://heritage.brisbane.qld.gov.au/heritage-places/806, accessed 16 July 2021.

## 2.3. Environmental Management Register

The Site is listed on the EMR for Hazardous Contaminants OCPs. The Site is not subject to a SMP and the EMR listing does not include a Site Suitability Statement.

## 2.4. Topography and Drainage

The Site is located at approximately 25 m AHD. Topography in the vicinity of the Site falls in an approximate north west direction toward a drain in Ekibin Park East.

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# 3. Previous Investigations

Previous investigations of the Site were completed in 2013 and 2019. A brief summary of these investigations is provided as follows. A summary of the data from the previous investigations is provided in Section 4. Sampling locations from previous investigations is provided in Figure 2, **Appendix A**.

**Coffey, 2013a. *Department of Veteran Affairs Phase 1 Contaminated Land Assessment, 114 Newdegate Street, Greenslopes Queensland***

This investigation comprised a desk top review, site inspection and limited soil sampling program. The limited sampling program identified elevated concentrations of zinc and OCPs which were below the adopted health investigations levels (NEPM residential guidelines with accessible soils or HIL A). Zinc is potentially derived from metallic materials present on the Site.

Fragments of ACM were observed on the Site. Asbestos fines (AF) in soil exceed the nominated investigation levels in two samples collected (SS01 0.007% w/w and SS02 0.02% w/w).

**Coffey, 2013b. *Department of Veteran Affairs Phase 2 Contaminated Land Assessment, 114 Newdegate Street, Greenslopes Queensland***

This investigation comprised a further soil sampling program to investigate the presence of contamination on the Site. Key findings of the investigation included:

- the presence of ACM in soil beneath the Main Hall Building and Accommodation Building which exceeded the nominated investigation levels (HIL-A).
- AF (chrysotile) detected in one soil sample with levels below the nominated investigation levels.
- Asbestos were not detected in nine of the ten samples collected. The report noted that the Phase 2 investigation adopted a methodology compliant with Australian Standards and was considered to supersede the findings of the Phase 1 Investigation.
- OCPs (aldrin + dieldrin) with concentrations which exceeded the nominated investigation levels (HIL-A) along the southern wall of the Main Hall, and beneath and along the southern wall of the Accommodation Building.
- the presence of anthropogenic materials including slag in soil material at sample sites located on the southern boundary of the Site (A05 and A06), sample locations to the west of the Accommodation Building (A04), and beneath and north of the Main Hall (A08 and A10).

**Coffey, 2019. *Department of Veteran Affairs Delineation of Organochlorine Soil Impacts, 114 Newdegate Street, Greenslopes Queensland***

This investigation comprised a further soil sampling program to further delineate the extent of OCPs on the Site, and slag material found on the southern side of the Main Hall. The slag material was observed as being potentially used as drainage material on the Site.

The investigation found OCPs which exceeded the nominated investigations levels (HIL-A and HIL-C) primarily where building external walls intersected the ground. Leachability analysis of selected soil samples via the TCLP[4] were undertaken for waste classification purposes.

This investigation observed the presence of ACM materials on the ground surface however no further investigation of ACM was undertaken.

[4] Toxicity Characteristic Leaching Procedure



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# 4. Summary of Previous Site Investigation Data

## 4.1. Site Geology

Coffey (2019) describes soils on the Site to be mainly comprised of silty CLAY to 0.3 m, and CLAY with silt and sand to 0.5 m. Fill material containing anthropogenic materials (wood, brick, concrete, and/or slag) has also been found on the Site in previous investigations.

## 4.2. Analytical Data

Data from the previous investigation has been consolidated in a single table and is provided in Appendix B.

Based on a review of the data, the data has been conceptualised into three categories of materials including:

- soil materials from surface to 0.2 m below ground level (bgl)
- soil materials deeper than 0.2 m bgl
- soil materials containing slag

The following sections provide a summary of the results of these materials for OCP

### 4.2.1. Soil materials surface to 0.2 m bgl

Soil investigation results for OCPs and metals are summarised in the following table for samples collected from surface to 0.2 mgl.

Table 4-1 Summary of Soil Data Surface to 0.2 m bgl

| Analyte (mg/kg unless shown) | No. of Samples / Detects | Minimum Value | Maximum Value | HIL-A Residential | No. of Samples Exceeding HIL-A Residential | HIL-C Recreational | No. of Samples Exceeding HIL-C Recreational |
|---|---|---|---|---|---|---|---|
| **OCPs** | | | | | | | |
| 4,4-DDE | 49 / 35 | <0.05 | 2.2 | | - | | - |
| a-BHC | 38 / 0 | <0.05 | <0.1 | | - | | - |
| Aldrin | 49 / 15 | <0.05 | 2.32 | | - | | - |
| Aldrin + Dieldrin | 49 / 27 | <0.05 | 109 | 6 | 15 | 10 | 13 |
| b-BHC | 49 / 0 | <0.05 | <0.1 | | - | | - |
| chlordane | 49 / 28 | <0.05 | 140 | 50 | 2 | 70 | 1 |
| d-BHC | 49 / 0 | <0.05 | <0.1 | | - | | - |
| DDD | 49 / 21 | <0.05 | 2.1 | | - | | - |
| DDT | 49 / 31 | <0.05 | 23 | | - | | - |
| DDT+DDE+DDD | 49 / 33 | <0.05 | 26.5 | 240 | 0 | 400 | 0 |
| Dieldrin | 49 / 33 | <0.05 | 107 | | - | | - |
| Endrin aldehyde | 49 / 4 | <0.05 | 0.24 | | - | | - |
| Endrin ketone | 48 / 17 | <0.05 | 1.4 | | - | | - |
| Endosulfan I | 49 / 2 | <0.05 | 0.26 | 270 | 0 | 340 | 0 |
| Endosulfan II | 48 / 0 | <0.05 | <0.05 | | - | | - |
| Endosulfan sulphate | 49 / 0 | <0.05 | <0.1 | | - | | - |
| Endrin | 49 / 16 | <0.05 | 1.47 | 10 | 0 | 20 | 0 |
| g-BHC (Lindane) | 49 / 0 | <0.05 | <0.1 | | - | | - |
| Heptachlor | 49 / 9 | <0.05 | 1 | 6 | 0 | 10 | 0 |
| Heptachlor epoxide | 49 / 18 | <0.05 | 3.4 | | - | | - |
| Hexachlorobenzene | 49 / 0 | <0.05 | <0.1 | 10 | 0 | 10 | 0 |
| Methoxychlor | 49 / 0 | <0.05 | <0.2 | 300 | 0 | 400 | 0 |

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| Analyte (mg/kg unless shown) | No. of Samples / Detects | Minimum Value | Maximum Value | HIL-A Residential | No. of Samples Exceeding HIL-A Residential | HIL-C Recreational | No. of Samples Exceeding HIL-C Recreational |
|---|---|---|---|---|---|---|---|
| Toxaphene | 45 / 0 | <0.1 | <1 | 20 | 0 | 30 | 0 |
| **Metals** | | | | | | | |
| Arsenic | 16 / 16 | 9.3 | 32 | 100 | 0 | 300 | 0 |
| Cadmium | 16 / 4 | <0.4 | 1.4 | 20 | 0 | 90 | 0 |
| Chromium (III+VI) | 16 / 16 | 12 | 90 | 100 | 0 | 300 | 0 |
| Copper | 16 / 16 | 6.4 | 33 | 6000 | 0 | 17000 | 0 |
| Lead | 16 / 16 | 7.3 | 140 | 300 | 0 | 600 | 0 |
| Mercury | 16 / 1 | <0.1 | 0.1 | 10 | 0 | 13 | 0 |
| Nickel | 16 / 16 | 8.4 | 35 | 400 | 0 | 1200 | 0 |
| Zinc | 16 / 16 | 26 | 2000 | 7400 | 0 | 30000 | 0 |

In summary OCP pesticides were detected in soils beneath and surrounding the buildings on the Site.

Elevated concentrations of the OCP pesticides aldrin and dieldrin have been found in soil samples which exceed NEPM HIL-A and HIL-C guidelines. The OCP chlordane also exceeded these investigation levels in one sample.

A range of other OCPs were also detected though were below the HIL-A and HIL-C guidelines in the samples analysed including:

- DDT+DDE+DDD
- Endosulfan I
- Endrin
- Heptachlor.

Endrin aldehyde and endrin ketone were also detected in samples analysed and do not have guideline values in the NEPM. These compounds are breakdown products on endrin.

Heptachlor epoxide which is a breakdown product of heptachlor were also detected in samples analysed and does not have guideline values in the NEPM.

All samples of metals analysed were below the NEPM HIL-A and HIL-C guidelines, however elevated concentrations of zinc were noted in sample locations SS01 and SS02.

Fragments of ACM have been observed in surface soils, and asbestos fines have previously been reported in sample locations SS01, SS02 and SA01.

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### 4.2.2. Soil materials deeper than 0.2 m bgl

Soil investigation results for OCPs from samples collected deeper than 0.2 mgl are summarised in the following table. Note metals were not analysed in samples at these depth with the exception of material containing slag.

Table 4-2 Summary of Soil Data deeper than 0.2 m bgl

| Analyte (mg/kg unless shown) | No. of Samples / Detects | Minimum Value | Maximum Value | HIL-A Residential | No. of Samples Exceeding HIL-A Residential | HIL-C Recreational | No. of Samples Exceeding HIL-C Recreational |
|---|---|---|---|---|---|---|---|
| **OCPs** | | | | | | | |
| 4,4-DDE | 19 / 2 | <0.05 | 0.22 | | - | | - |
| a-BHC | 19 / 0 | <0.05 | <0.05 | | - | | - |
| Aldrin | 19 / 3 | <0.05 | 0.21 | | - | | - |
| Aldrin + Dieldrin | 19 / 7 | <0.05 | 14 | 6 | 2 | 10 | 1 |

| Analyte (mg/kg unless shown) | No. of Samples / Detects | Minimum Value | Maximum Value | HIL-A Residential | No. of Samples Exceeding HIL-A Residential | HIL-C Recreational | No. of Samples Exceeding HIL-C Recreational |
|---|---|---|---|---|---|---|---|
| b-BHC | 19 / 0 | <0.05 | <0.05 | | - | | - |
| chlordane | 19 / 4 | <0.1 | 0.4 | 50 | 0 | 70 | 0 |
| d-BHC | 19 / 0 | <0.05 | <0.05 | | - | | - |
| DDD | 19 / 1 | <0.05 | 0.15 | | - | | - |
| DDT | 19 / 0 | <0.05 | <0.2 | | - | | - |
| DDT+DDE+DDD | 19 / 2 | <0.05 | 0.37 | 240 | 0 | 400 | 0 |
| Dieldrin | 19 / 7 | <0.05 | 14 | | - | | - |
| Endrin aldehyde | 19 / 0 | <0.05 | <0.05 | | - | | - |
| Endrin ketone | 19 / 1 | <0.05 | 0.05 | | - | | - |
| Endosulfan I | 19 / 0 | <0.05 | <0.05 | 270 | 0 | 340 | 0 |
| Endosulfan II | 19 / 0 | <0.05 | <0.05 | | - | | - |
| Endosulfan sulphate | 19 / 0 | <0.05 | <0.05 | | - | | - |
| Endrin | 19 / 2 | <0.05 | 0.1 | 10 | 0 | 20 | 0 |
| g-BHC (Lindane) | 19 / 0 | <0.05 | <0.05 | | - | | - |
| Heptachlor | 19 / 0 | <0.05 | <0.05 | 6 | 0 | 10 | 0 |
| Heptachlor epoxide | 19 / 0 | <0.05 | <0.05 | | - | | - |
| Hexachlorobenzene | 19 / 0 | <0.05 | <0.05 | 10 | 0 | 10 | 0 |
| Methoxychlor | 19 / 0 | <0.05 | <0.2 | 300 | 0 | 400 | 0 |
| Toxaphene | 18 / 0 | <1 | <1 | 20 | 0 | 30 | 0 |

In summary lower concentrations of OCP pesticides were detected in soils deeper than 0.2 m bgl on the Site. This finding would be consistent with the source of contamination being the application of termiticides. Aldrin+Endrin exceeded HIL-A residential guidelines in two samples (10-0.45 and 11-0.45) and HIL-C recreational guidelines in 11-0.45. Sample location 10 is located on the southern side of the Accommodation Building and sample location 11 located on the eastern side of this building.

### 4.2.3. Soil materials containing slag

Soil investigation results for OCPs, metals and polyaromatic hydrocarbons (PAH) are summarised in the following table for samples where slag was observed.

Table 4-3 Summary of Soil Materials with Slag

| Analyte (mg/kg unless shown) | No. of Samples / Detects | Minimum Value | Maximum Value | HIL-A Residential | No. of Samples Exceeding HIL-A Residential | HIL-C Recreational | No. of Samples Exceeding HIL-C Recreational |
|---|---|---|---|---|---|---|---|
| **OCPs** | | | | | | | |
| 4,4-DDE | 3 / 0 | <0.05 | <0.5 | | - | | - |
| a-BHC | 2 / 0 | <0.05 | <0.05 | | - | | - |
| Aldrin | 3 / 1 | <0.05 | 86 | | - | | - |
| Aldrin + Dieldrin | 3 / 1 | <0.05 | 506 | 6 | 1 | 10 | 1 |
| b-BHC | 3 / 0 | <0.05 | <0.05 | | - | | - |
| chlordane | 3 / 3 | 0.4 | 5.4 | 50 | 0 | 70 | 0 |
| d-BHC | 3 / 0 | <0.05 | <0.05 | | - | | - |
| DDD | 3 / 0 | <0.05 | <0.05 | | - | | - |
| DDT | 3 / 0 | <0.05 | <0.05 | | - | | - |
| DDT+DDE+DDD | 3 / 0 | <0.05 | <0.55 | 240 | 0 | 400 | 0 |
| Dieldrin | 3 / 1 | <0.05 | 420 | | - | | - |
| Endrin aldehyde | 3 / 0 | <0.05 | <0.05 | | - | | - |
| Endrin ketone | 3 / 1 | <0.05 | 8.5 | | - | | - |
| Endosulfan I | 3 / 0 | <0.05 | <0.05 | 270 | 0 | 340 | 0 |
| Endosulfan II | 3 / 0 | <0.05 | <0.05 | | - | | - |
| Endosulfan sulphate | 3 / 0 | <0.05 | <0.05 | | - | | - |
| Endrin | 3 / 1 | <0.05 | 6.5 | 10 | 0 | 20 | 0 |
| g-BHC (Lindane) | 3 / 0 | <0.05 | <0.05 | | - | | - |

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| Analyte (mg/kg unless shown) | No. of Samples / Detects | Minimum Value | Maximum Value | HIL-A Residential | No. of Samples Exceeding HIL-A Residential | HIL-C Recreational | No. of Samples Exceeding HIL-C Recreational |
|---|---|---|---|---|---|---|---|
| Heptachlor | 3 / 1 | <0.05 | 0.87 | 6 | 0 | 10 | 0 |
| Heptachlor epoxide | 3 / 3 | 0.11 | 0.26 | | - | | - |
| Hexachlorobenzene | 3 / 0 | <0.05 | <0.05 | 10 | 0 | 10 | 0 |
| Methoxychlor | 3 / 0 | <0.05 | <0.05 | 300 | 0 | 400 | 0 |
| Toxaphene | 3 / 0 | <1 | <1 | 20 | 0 | 30 | 0 |
| **PAHs** | | | | | | | |
| Benzo(a)pyrene TEQ calc (Half) | 2 / 2 | 0.6 | 0.6 | 3 | 0 | 3 | 0 |
| Benzo(a)pyrene TEQ (LOR) | 2 / 2 | 1.2 | 1.2 | 3 | 0 | 3 | 0 |
| Benzo(a)pyrene TEQ calc (Zero) | 2 / 0 | <0.5 | <0.5 | 3 | 0 | 3 | 0 |
| Benzo(b+j)fluoranthene | 2 / 0 | <0.5 | <0.5 | | - | | - |
| Acenaphthene | 2 / 0 | <0.5 | <0.5 | | - | | - |
| Acenaphthylene | 2 / 0 | <0.5 | <0.5 | | - | | - |
| Anthracene | 2 / 0 | <0.5 | <0.5 | | - | | - |
| Benz(a)anthracene | 2 / 0 | <0.5 | <0.5 | | - | | - |
| Benzo(a) pyrene | 2 / 0 | <0.5 | <0.5 | | - | | - |
| Benzo(g,h,i)perylene | 2 / 0 | <0.5 | <0.5 | | - | | - |
| Benzo(k)fluoranthene | 2 / 0 | <0.5 | <0.5 | | - | | - |
| Chrysene | 2 / 0 | <0.5 | <0.5 | | - | | - |
| Dibenz(a,h)anthracene | 2 / 0 | <0.5 | <0.5 | | - | | - |
| Fluoranthene | 2 / 0 | <0.5 | <0.5 | | - | | - |
| Fluorene | 2 / 0 | <0.5 | <0.5 | | - | | - |
| Indeno(1,2,3-c,d)pyrene | 2 / 0 | <0.5 | <0.5 | | - | | - |
| Naphthalene | 2 / 0 | <0.5 | <0.5 | | - | | - |
| PAHs (Sum of total) | 2 / 0 | <0.5 | <0.5 | 300 | 0 | 300 | 0 |
| Phenanthrene | 2 / 0 | <0.5 | <0.5 | | - | | - |
| Pyrene | 2 / 0 | <0.5 | <0.5 | | - | | - |
| **Metals** | | | | | | | |
| Arsenic | 3 / 3 | 2.1 | 19 | 100 | 0 | 300 | 0 |
| Cadmium | 3 / 0 | <0.4 | <0.4 | 20 | 0 | 90 | 0 |
| Chromium (III+VI) | 3 / 1 | <5 | 22 | 100 | 0 | 300 | 0 |
| Copper | 3 / 3 | 11 | 19 | 6000 | 0 | 17000 | 0 |
| Lead | 3 / 3 | 19 | 120 | 300 | 0 | 600 | 0 |
| Mercury | 3 / 0 | <0.1 | <0.1 | 10 | 0 | 13 | 0 |
| Nickel | 3 / 3 | 5.8 | 8.7 | 400 | 0 | 1200 | 0 |
| Zinc | 3 / 3 | 51 | 330 | 7400 | 0 | 30000 | 0 |

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Elevated levels of metals and PAHs can be present in slag materials. However elevated concentrations of these contaminants were not observed in the limited number of soil samples analysed. PAHs were not above laboratory limits of reporting (LOR) and metals were reported with concentrations below HIL-A and HIL-C.

Aldrin and dieldrin exceeded HIL-C in sample HA10 located on the southern side of the Accommodation Building. This result would be attributed to the application of termiticides to soil rather than OCPs being derived from the slag.

### 4.2.4. Other Potential Contaminants

Areas of potential hydrocarbon impact were not observed during previous investigations and this is consistent with the site history which has not identified fuel storage/use on the Site.

In the Phase 1 Investigation (Coffey, 2013a) hydrocarbons (TRH) were not reported above the LOR three of the four samples analysed, and BTEX[5] was not above the LOR in the four samples analysed. Hydrocarbons were reported in one sample location (SS04) however this result is potentially a false

[5] Benzene, toluene, ethylbenzene, xylenes.

positive from organic matter present in the sample and it is noted that no visual or olfactory signs of hydrocarbon contamination were observed at this sample location (or elsewhere on the Site).

Other potential contaminants including organophosphate pesticides were not reported in samples analysed in the Phase 1 Investigation.

### 4.2.5. Summary of Contamination

In summary the primary contaminants of concern (CoC) on the Site are considered to be OCPs (mainly aldrin and dieldrin) and asbestos (ACM and AF).

Based on previous site investigations metals are not considered to be CoC on the Site. Elevated concentrations of zinc were reported in two sample locations which have potential implication for waste disposal; the concentrations however were below HIL-A residential and HIL-C recreational guidelines.

## 4.3. Areas of Interest

Based on the data from previous investigations the Site has been conceptualised into three main areas of interest (AOI) which are shown in Figure 5-1. These are summarised as follows.

- **Area 1**: This area includes the former Accommodation Building. OCP contamination which exceeds HIL-C guidelines has been reported predominantly in surface soil materials less than 0.2 m depth along the southern perimeter of the building, and to a lesser amount along the western and northern side of the building and within a small area within the central portion of the building. OCP contamination which exceeds HIL-C was reported in one location (11) at 0.45 m depth.
- **Area 2**: This area includes the former Main Hall. With the exception of a small area of OCP contamination in Area 3, OCP contamination in Area 2 is below the HIL-C guidelines.
- **Area 3**: Area 3 is located along the southern boundary of the Site and has OCP contamination which exceeds the HIL-C guidelines in surface soil materials less than 0.2 m depth.

Other points of note from previous investigations include the following:

- **Asbestos:** ACM fragments have been observed in surface soil materials within Area 1 and Area 2/3. Previous investigations have also found Asbestos Fines (loose asbestos fibres) in soil materials in both Area 1 and Area 2.
- **Fill Material:** Fill material containing anthropogenic materials (e.g. wood, concrete, brick, slag, coal) have been observed in shallow soil materials. While fill materials containing anthropogenic materials such as slag, concrete and brick may be within NEPM Guidelines, such materials are undesirable aesthetically for a park and may pose physical hazards (sharp and angular) and should therefore be removed.

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Figure 5-1 Areas of Interest

## 4.4. Implications for Site Redevelopment

The Site is currently zoned for community use however it is understood that a Planning Application will be required to redevelop the Site as a Park.

There are two remediation strategies which could be considered for the Site including:

- Partial remediation of the Site such that the property is suitable for Park and Community use and remains on the EMR. The strategy will require a Contaminated Land Investigation Document (CLID) including a Site Suitability Statement and Draft SMP. As BCC will take ownership for the Site the Department of Environment and Science (DES) will require BCC to consent to the SMP (and therefore any residual contamination present on the Site and its on-going management).
- Full remediation of the site enabling the Site to be removed from the EMR through completion of a CLID/Validation Report.

Site Auditor Certification will need to accompany the CLID/Draft SMP or Validation Report, and will be required prior to use of the Site as a Park.

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# 5. Data Gaps

Based on a review of the previous investigations the following data gaps have been identified:

- Previous investigations have not sampled soil materials beneath the concrete slab located along the northern half of the Accommodation Building, and beneath the concrete pavement along the eastern boundary of the Site.
- Elevated concentrations of zinc were found at two locations in Area 2 (SS01 and SS02). While the concentrations are below NEPM Guidelines for Parks and Open Spaces, recipient landfills may require leachability tests for waste classification purposes.
- The potential for contamination in the concrete slabs has not been previously investigated. OCPs have the potential to be present in concrete slabs as wells as building stumps/footings.
- Soil materials containing slag have been analysed however it is recommended that the slag materials be crushed and analysed.

These data gaps should be investigated to inform decision making on redevelopment and remediation of the Site.

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# 6. Data quality objectives

The National Environment Protection Measure (NEPM, Schedule B2 Guideline on Site Characterisation -2013) states that the nature and quality of the data collected for a particular assessment will be determined by the Data Quality Objectives (DQOs). The NEPM and the Australian Standard AS4482.1-2005 reference the US EPA *Guidance on Systematic Planning Using the Data Quality Objectives Process* (US EPA, 2006) which defines the DQO process. The US EPA defines the process as *'a strategic planning approach based on the Scientific Methods that is used to prepare for a data collection activity. It provides a systematic procedure for defining the criteria that a data collection design should satisfy, including when to collect samples, where to collect samples, the tolerable level of decision errors for the study, and how many samples to collect.'*

The process for establishing DQOs appropriate for a project is defined by the US EPA and comprises seven steps. The DQOs have been briefly summarised in Table 2-1.

Table 5-1: Data Quality Objectives

| Data Quality Objectives |
|---|
| 1. State the Problem<br>DVA is planning to redevelop the Site for park/community use. DVA has advised that it has had preliminary discussions with BCC which support the end use of the Site as a Park, and has advised that remediation of the Site to a standard suitable for Park is an appropriate remediation strategy for the Site. Previous investigations have identified OCPs and asbestos which exceed guidelines for recreational use. Review of previous investigation have identified four 'Data Gaps' which include:<br>a. Previous investigations have generally sampled from accessible areas on the Site and accordingly there are number of locations on the Site which have not been investigated. Materials within these areas require investigation to inform the planning for the redevelopment and remediation of the Site.<br>b. Elevated concentrations of zinc have previously been reported in two sample locations which have potential implications for off-site disposal to landfill. These locations require leachability (TCLP) tests to confirm landfill disposal requirements.<br>c. OCPs are potentially present in concrete slabs present on the Site as well as stumps and footings; these materials require investigation.<br>d. Slag materials are present on the Site. Samples of slag should be collected and crushed for chemical testing. |
| 2. Identify the goal of the study<br>The purpose of the investigation is to investigate the Data Gaps described in Section 5. |
| 3. Identify information inputs<br>• Previous investigations (where applicable)<br>• Field observations including the presence of visual/olfactory indicators of contamination<br>• Analytical data of sample media, and quality assurance / quality control (QA/QC) samples<br>• Outcome of QA/QC samples<br>• Nominated investigation levels. |
| 4. Define the boundary of the study |

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|---|
| The study boundary is defined as Lot 123-125 RP46047 (“the Site), and the investigation of soil materials to approximately 0.5 m below ground level within the Site. The investigation will be undertaken over a period of approximately one day. |
| 5. Develop a decision rule<br>Primary and QA/QC samples will be collected and analysed by the laboratories for potential contaminants of concern (CoCs). Where contamination is identified and exceeds the nominated investigation levels for the protection of human health and/or the environment a recommendation will be made for:<br>• completion of further investigations to assess the nature and extent of OCP contamination requiring management (if required)<br>• remediation of the Site to enable the Site to be used for its intended use. |
| 6. Specify performance of acceptance criteria<br>Analytical data quality indicators are described in Section 10. |
| 7. Develop a plan for obtaining the data<br>The methodology and rationale for obtaining relevant data for the detailed site investigation is described in this plan. |

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# 7. Investigation levels

The nominated investigation levels (ILs) have been selected to assess the suitability of the Site for its intended use for recreational purposes or removal of the Site from the EMR. Based on the CoC identified in previous investigations the nominated ILs include:

Assessment of the Site for Recreational Use

- NEPM health-based investigation levels in recreational land use (HIL-C)
- NEPM health screening level for asbestos for recreational land use (HSL-C)
- NEPM Ecological Investigation Levels (EIL) for in Urban Residential/Public Open Space land use settings
- Other guideline as required based on the findings of the investigation.

Assessment of the Site for removal from EMR

- NEPM health-based investigation levels in residential landuse with accessible gardens/soil (HIL-A)
- NEPM health screening level for asbestos for residential landuse with accessible gardens/soil (HSL-A)
- NEPM Ecological Investigation Levels in Urban Residential/Public Open Space land use settings
- Other guideline as required based on the findings of the investigation.

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# 8. Preliminary conceptual site model

Historical termiticides applied to Site and asbestos containing materials (ACM) (most likely from buildings on the Site) are considered to be the **primary sources** of contamination on the Site.

Contamination present in soil and other environmental media as a result of the primary source is considered as a **secondary source** of **contamination**.

Once in soil, contamination has the potential to be distributed through **transportation pathways** such as erosion and deposition (wind and water) and the leaching of contaminants to groundwater and surface water, and anthropogenic activities which involve the movement of soil materials such as site redevelopment. Transportation pathways can also be considered as secondary sources of contamination (e.g. contamination in groundwater).

**Receptors** could potentially be exposed to contaminants derived from the disturbance of contaminants present in within soil.

Potential receptors considered applicable redevelopment of the Site include:

- workers involved with the Site work
- persons involved with the cleaning clothing, vehicles and equipment used in redevelopment
- general public including persons who could be subject to contaminated media generated during redevelopment (e.g. dust)
- ecological receptors including native and domestic terrestrial flora and fauna
- groundwater and surface water receptors.

Post redevelopment potential receptors which may be exposed to contaminants in soil include:

- general public accessing the park
- persons involved with maintenance of the park
- persons who could be subject to contaminated media generated from the Site (e.g. dust)
- ecological receptors including terrestrial and aquatic flora and fauna (including native and domestic terrestrial fauna).
- groundwater and surface water receptors.

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# 9. Sample locations and depths

The sample locations proposed to be undertaken under this SAQP are shown in Figure 3, Appendix A and summarised in the following table.

| Sample Location | Proposed sampling |
|---|---|
| BH01 to BH08 | Concrete coring and soil sampling beneath the main hall, drive way along the eastern end of the Site. Soil samples will be collected at 0-0.1 m, 0.3 m and up to 0.5 m below ground level (if practicable). Concrete cores and soil samples will be submitted for laboratory analysis. |
| BH09 to BH11 | Concrete coring between the accommodation building and main hall, and submission of concrete cores for laboratory analysis. |
| BH12 to BH13 | Two surface soil samples (0-0.1 m bgl) where elevated levels of zinc were reported in previous investigations |
| BH14 to BH15 | Two boreholes at previous sampling sites where elevated concentrations of OCPs were reported and there is currently no leachability data including HA10 and HA09. Soil samples will be collected at 0-0.1 m, 0.3 m and up to 0.5 m where practicable. |
| BH16 to BH17 | Two boreholes at previous sampling sites where elevated concentrations of OCPs were reported and there is currently no leachability data including HA10 and HA09. Soil samples will be collected at 0-0.1 m, 0.3 m and up to 0.5 m where practicable. |
| BH16 to BH20 | Four boreholes around the perimeter of the Site in grassy areas outside the building envelope and the collection of soil samples at 0-0.1 m and 0.3 m. |
| Slag 1 to 2 | Collection of two pieces of slag from the southern side of the Main Hall. |

Addition soil samples will be collected where visual or olfactory signs of contamination are observed during sampling.

Samples of ACM will be collected where observed at sampling sites.

Soil samples will be collected by hand using the methods described in Section 10.2. Ground conditions and access (e.g. limited head height under buildings) may limit sample depths which can be achieved.

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# 10. Sample analysis and quality control

Samples collected will be submitted to NATA accredited laboratory for analysis of the following:

- Soil samples: OCPs, metals (arsenic, cadmium, chromium, copper, lead, nickel and zinc), and asbestos
- concrete samples: OCPs
- slag samples: metals, PAH, OCPs

TCLP leachability tests will be undertaken on selected soil and/or concrete samples.

Primary, intra-laboratory duplicate, inter-laboratory duplicate, rinsate and trip samples will be submitted to either Eurofins laboratory located in Brisbane for primary analysis or ALS Environmental laboratory for secondary analysis. The selected laboratories are hold NATA accredited analytical methods for the analysis required.

Laboratory analysis will be conducted in accordance with the requirements of NEPM and are referenced to USEPA, NEPM and APHA methods.

## 10.1. Quality control

The recommendations of this procedure are based on the guidelines presented in:

- NEPM [the National Environment Protection (Assessment of Site Contamination) Measure 1999
- AS4482.1 Guide to the sampling and investigation of potentially contaminated soil, Part 1: Non Volatile and Semi-volatile Substances.

Samples will be collected by field experienced in sampling technical for materials with ACM and AF, and contaminated sites.

The following table provides a summary of the field quality control samples to be collected.

Table 9-1: Field Quality control samples

| Sample Type | Comments |
|---|---|
| Intra-laboratory duplicates | Intra-laboratory field duplicates will be collected at a minimum frequency of one sample per twenty samples collected (5%). The analytical results of the duplicate samples will be compared to assess the precision of the sampling protocol and to provide an indication of variation in the sample source.<br>Repeatability will be assessed by calculating the relative percentage difference (RPD) between the primary and duplicate results. Where the RPD is greater than 30%, the potential causes of variability will be reviewed. |
| Inter-laboratory duplicates | Inter-laboratory field duplicates will be collected at a frequency of one sample per twenty samples collected (5%). The analytical results of the duplicate samples will be compared to assess the precision of the sampling protocol, provide an indication of variation in the sample source and to assess the accuracy of analysis.<br>Reproducibility will be assessed by calculating the relative percentage difference (RPD) between the primary and duplicate sample results. Where the RPD is greater than 30%, the potential causes of variability will be reviewed. |

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| Sample Type | Comments |
|---|---|
| Rinsate blanks | Rinsate samples will be prepared in the field using empty bottles and the laboratory provided rinsate water. These samples will be a check of field decontamination procedures. A rinsate sample will be collected and analysed for each day of field work carried out, where non-disposable sampling equipment has been used. |

## 10.2. Laboratory QA/QC

Laboratory quality control will include:

- the laboratory analysis of samples will be undertaken by a NATA accredited environmental testing laboratory; and
- the laboratory analyses will include reagent blanks, spike samples, duplicate spikes, matrix spikes, and surrogates spikes and duplicates to assess the laboratory quality control.

## 10.3. Data quality assessment

The laboratory quality control data shall be assessed as follows:

- checking the reporting limits and procedures are satisfactory;
- checking that the samples are analysed within holding times;
- checking that laboratory blanks / reagent blanks are less than the laboratory reporting limits;
- checking the reproducibility of samples by calculating the Relative Percentage Differences (RPDs) between primary and duplicate laboratory samples; and
- checking that spikes, surrogate spikes, matrix spikes and duplicate matrix spike recoveries are within acceptable control limits.

Data Quality Indicators that will be adopted for quality control samples are presented below.

The quality of the data is assessed against a range of factors including documentation, data completeness, comparability, reliability, precision and accuracy. The criteria for assessing data quality are listed in the below table.

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Table 9-2: Acceptance Criteria for Data Quality

| Data Quality Indicator | Acceptance Criteria |
|---|---|
| Field Duplicates and Split Samples and Laboratory Duplicates. | Relative Percentage Difference (RPD):<br><br>• < 10 times the laboratory's limit of reporting (LOR) – No limit.<br>• 10 – 20 times the LOR – less than 50% RPD.<br>• > 20 times the LOR – less than 30% RPD.<br><br>This acceptance criteria is adopted by the NATA accredited laboratories and will be applicable to all contaminant types assessed. Any exceedance of this acceptance criteria will be investigated and reported on within the contaminated land investigation document. |
| Rinsate and Trip Blank Samples | Concentrations below the laboratory LOR |

| Data Quality Indicator | Acceptance Criteria |
|---|---|
| Matrix Spikes | Recoveries between 70-130% |
| Method Blanks | Concentrations below the laboratory LOR |

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# 11. Field methods and procedures

## 11.1. Field equipment

A summary of general field equipment that will be required for assessment works at the Site include the following (where appropriate):

- Notebook/indelible marker pens;
- Pick/shovel/hand trowel;
- Hand auger
- Decontamination buckets;
- Laboratory provided deionised water;
- Laboratory prepared sample containers;
- Ice chests and ice;
- Disposable nitrile gloves;
- Personal protective equipment (PPE);
- Measuring tap; and
- Liquinox.

## 11.2. Soil sampling

Soil samples will be collected by hand using a hand augur and/or geological hammer/spike to scrape the surface material and loosen the underlying soils to allow for collection with a small shovel.

All reusable field equipment (geological hammer/spike/augur) will be decontaminated using Liquinox detergent and deionised water and dedicated disposable nitrile gloves will be used for each sample.

Soil samples will be placed in clean acid washed glass jars supplied by the laboratory and sealed with a Teflon-lined lid, or laboratory provided 500 g sample bags for samples for asbestos analysis. 10 L samples will be collected where visible ACM is observed at the sample location.

Where ACM is observed at the sampling sites, the ACM will be collected for analysis and the following information will be recorded:

- the no. and size of ACM fragments
- the shape (angular vs. rounded) of the fragments and relative strength (i.e. does it crumble with moderate hand pressure)

## 11.3. Decontamination procedures

Where applicable, the following procedures will be applied for decontamination of sampling equipment.

- Re-useable equipment (e.g. augur) shall be decontaminated prior to first use each day at each site, and between each sampling location or at an increased frequency to provide a satisfactory level of decontamination suitable to meet the project requirements/site conditions.

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- Disposable (single use) equipment such as nitrile gloves will be disposed of appropriately following each use. This equipment is not to be re-used and therefore does not require decontamination.
- Care will be taken at all times to handle the cleaned equipment and samples only with clean disposable nitrile gloves. Equipment will be stored after decontamination and prior to use, in clean polypropylene bags, to ensure the cleaned equipment does not come into contact with anything that may introduce contamination to the equipment.
- Care will be taken to ensure that the decontamination process does not contribute to the spread of contamination of the site, stormwater or off site locations.

The procedure noted below will be followed as a minimum when decontaminating reusable equipment used to sample soil/sediment at the site.

- For equipment used to sample solids, all adhered materials (such as soil, vegetation) will be removed from the sampling equipment by gloved hand, paper towel or scrubbing brush.
- Wash the equipment in a bucket of potable water.
- Rinse the equipment thoroughly in a second bucket containing distilled water.
- Spray rinse the equipment with potable water.
- Dry the decontaminated equipment with disposable towels or air dry on a surface that will not result in the re-contamination of the equipment.
- Where equipment is being temporarily stored between sample locations (i.e. where another round of decontamination washing is not being undertaken) the equipment is to be stored in clean polypropylene bags, to prevent re-contamination prior to its next use.

## 11.4. Waste management

Wastes will include:

- Excess soil cuttings from sampling
- Wash water from decontamination procedures
- General used consumables and waste.

The following procedures are proposed in relation to waste management:

- Disposable (single use) equipment, such as nitrile gloves will be removed from site and disposed of appropriately following each use.
- Soil cuttings generated will be retained on site at the location where the sample was taken.
- Wastewater (i.e. decontamination wash water) will be spread on the adjacent ground to allow it to evaporate. Wastewater will not be placed near drains.
- All waste soil and water will be placed so that it does not present an unacceptable risk to the surrounding environment, enter stormwater systems and in a way that does not pose an unacceptable aesthetic outcome.

# 12. Sample preservation and documentation

Samples will be placed in laboratory prepared containers suitable for the selected analysis. The sample containers will then be placed directly into an insulated ice chest containing ice, for

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transportation to Eurofins and Australian Laboratory Services, as the NATA accredited analytical laboratories with the Chain of Custody form recording the following information:

- project reference;
- date of sampling;
- sample identifications;
- matrix and container details;
- preservation methods;
- name of sampler;
- required analysis;
- turnaround times required; and
- signatures of sender and receiving laboratory.

# 13. Health and safety

Sampling work will be undertaken in accordance with the Coffey (2021) Health, Safety, Security and Environment (HSSE) Plan.

Coffey understand that all underground services have been disconnected on-site and has therefore no allowance has been included for clearance for underground services prior to sampling.

# 14. Reporting

Results of the investigation will be provided to DVA and the Site Auditor in a simple factual letter report which summarises the findings of the investigations and compares the laboratory results to the nominated ILs and landfill waste acceptance criteria.

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# 15. References


- AS4482.1 Guide to the sampling and investigation of potentially contaminated soil, Part 1: Non Volatile and Semi-volatile Substances.
- Coffey, 2013a. Department of Veteran Affairs Phase 1 Contaminated Land Assessment, 114 Newdegate Street, Greenslopes Queensland
- Coffey, 2013b. Department of Veteran Affairs Phase 2 Contaminated Land Assessment, 114 Newdegate Street, Greenslopes Queensland
- Coffey, 2019. Department of Veteran Affairs Delineation of Organochlorine Soil Impacts, 114 Newdegate Street, Greenslopes Queensland
- NEPC (2013) National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended in 2013, National Environment Protection Council


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# Appendix A Figures

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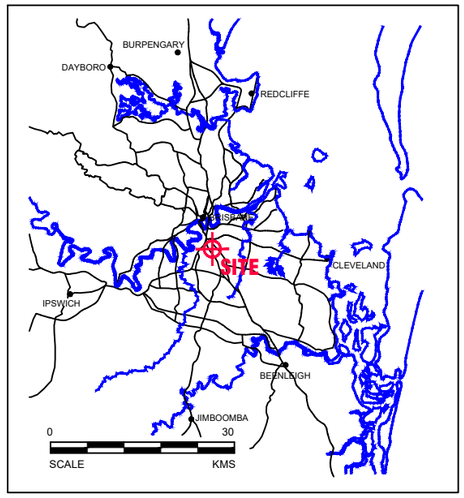
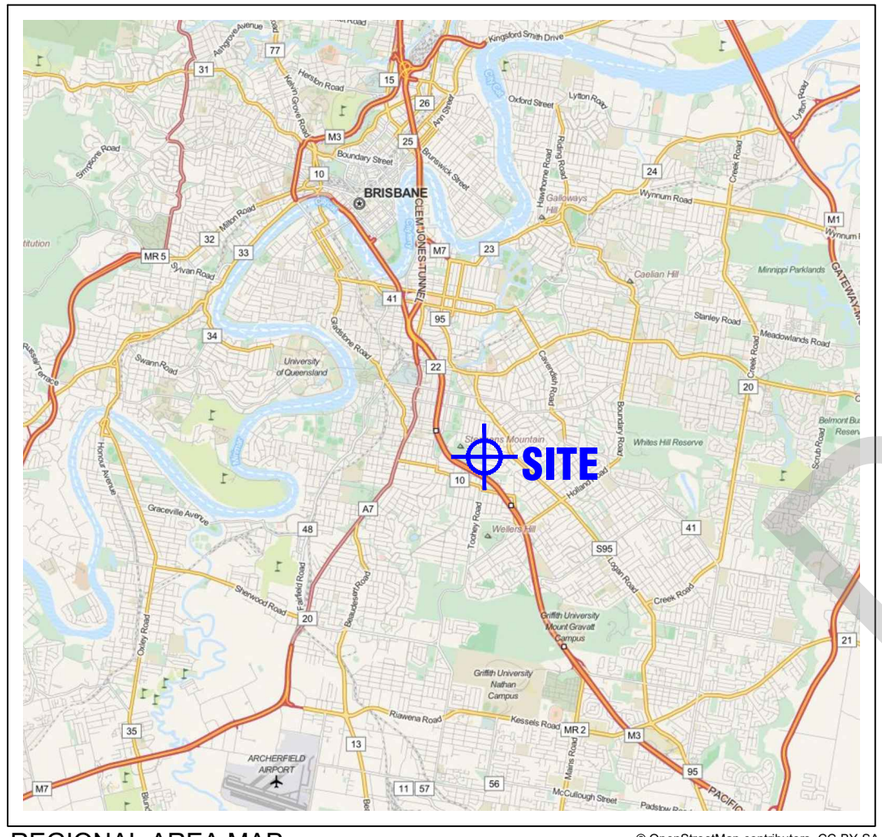



GENERAL AREA MAP




REGIONAL AREA MAP

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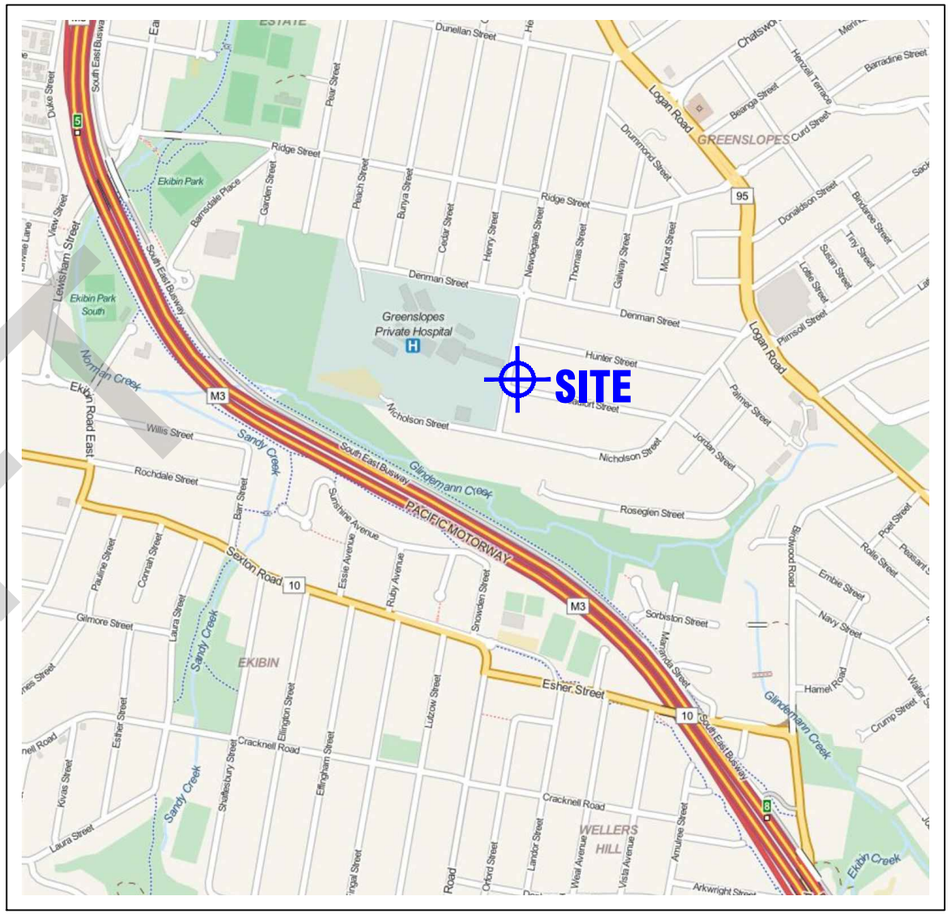


LOCAL AREA MAP

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| | A | ORIGINAL ISSUE | CGT | AH | 04/12/2019 |
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| date | 04/12/2019 |
| scale | AS SHOWN |
| original size | A3 |

coffey
A TETRA TECH COMPANY

client: DEPARTMENT OF VETERAN AFFAIRS

project: REMEDIATION PLANNING
114 NEWDEGATE STREET, GREENSLOPES, QLD

title: SITE LOCALITY PLAN

project no: 754-BNEEN282781 | figure no: FIGURE 1 | rev: A

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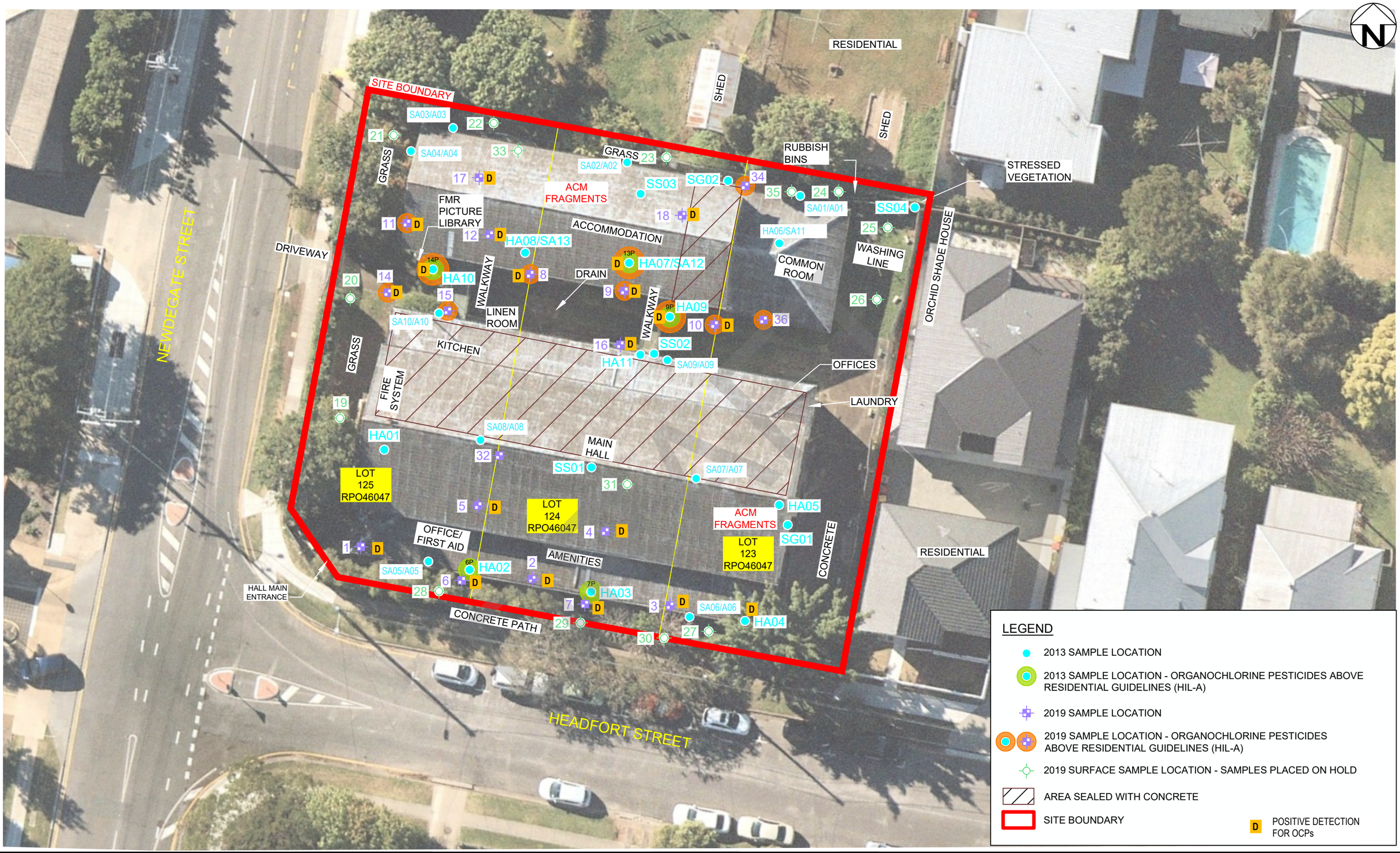


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| | A | ORIGINAL ISSUE | CGT | AH | 04/12/2019 |

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| drawn | CGT |
| approved | AH |
| date | 04/12/2019 |
| scale | AS SHOWN |
| original size | A3 |

coffey
A TETRA TECH COMPANY

client: DEPARTMENT OF VETERAN AFFAIRS

project: REMEDIATION PLANNING
114 NEWDEGATE STREET, GREENSLOPES, QLD

title: SITE FEATURES AND SAMPLE LOCATIONS

project no: 754-BNEEN282781 | figure no: FIGURE 2 | rev: A

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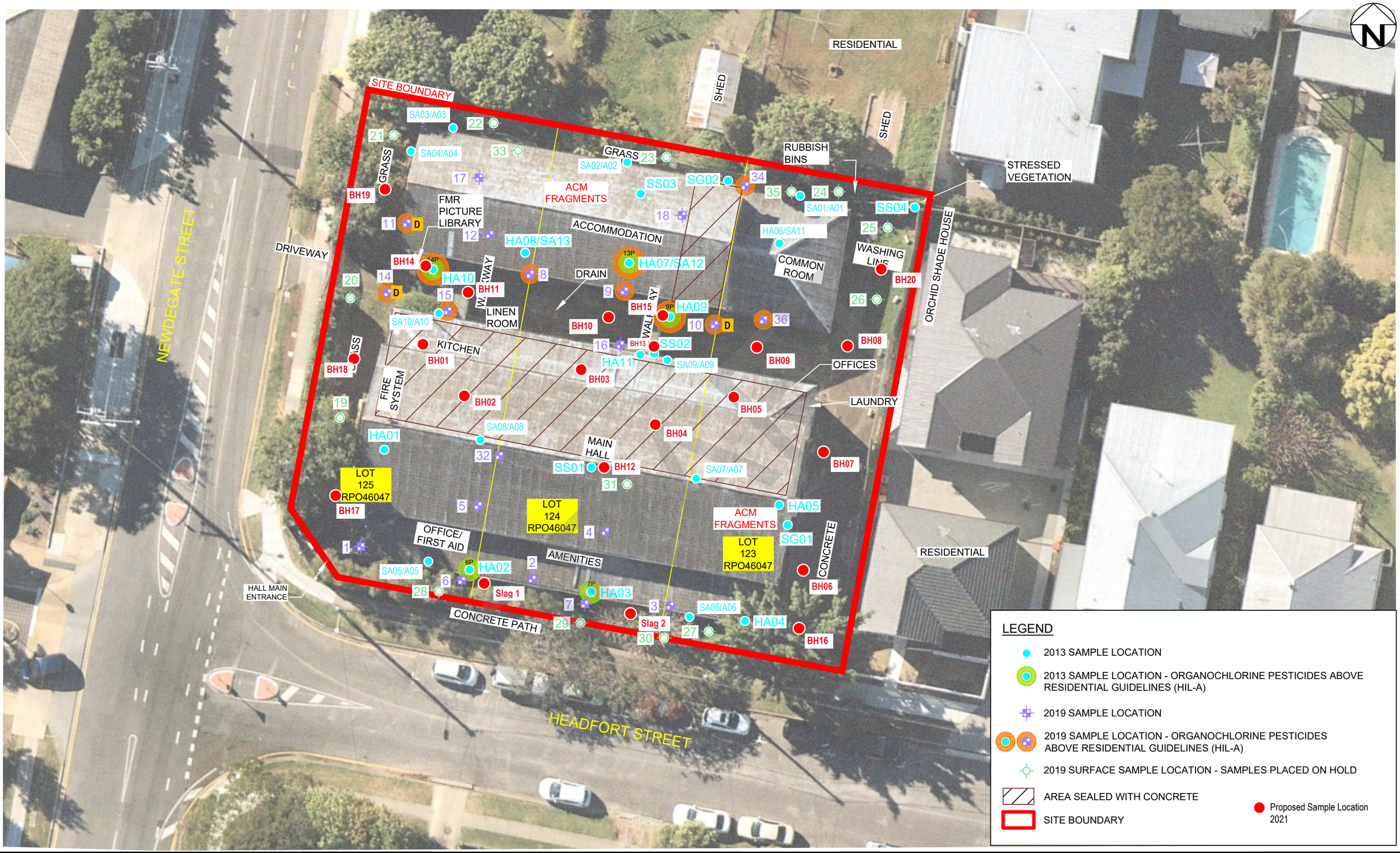


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| drawn | CGT |
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| date | 04/12/2019 |
| scale | AS SHOWN |
| original size | A3 |

coffey
A TETRA TECH COMPANY

client: DEPARTMENT OF VETERAN AFFAIRS

project: REMEDIATION PLANNING
114 NEWDEGATE STREET, GREENSLOPES, QLD

title: PROPOSD SAMPLE LOCATIONS

project no: 754-BNEEN282781 | figure no: FIGURE 3 | rev: A

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# Appendix B Data Table

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## 114 Newdegate Street Greenslopes Soil Data

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Sampled_Date | Asbestos | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Asbestos (ID) | ACM (w/w) | Asbestos Fines (w/w) | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endrin aldehyde | Endrin ketone | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Organochlorine pesticides EPAVic | Other organochlorine pesticides EPAVic |
| Units | - | - | - | - | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | - | - | - | - | | - | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 1 | 0.1 | 0.1 |
| EIL - Res/Open Space | - | - | - | - | | - | | | | | | | | | 180 | | | | | | | | | | | | | | | | | |
| HIL-A Residential | - | - | - | - | 0.01% | 0.001% | | | | 6 | | 50 | | | | 240 | | | | 270 | | | 10 | | 6 | | 10 | 300 | 20 | | | |
| HIL-C Recreational | - | - | - | - | 0.02% | 0.001% | | | | 10 | | 70 | | | | 400 | | | | 340 | | | 20 | | 10 | | 10 | 400 | 30 | | | |
| SS01 | 0 | 0.1 | 16/07/2013 | Chrysotile | | ######## | 1.3 | <0.05 | <0.05 | <0.12 | <0.05 | 0.9 | <0.05 | 1.7 | 3.7 | 6.7 | 0.07 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - |
| SS02 | 0 | 0.1 | 16/07/2013 | Chrysotile | | ######## | <0.05 | <0.05 | <0.05 | <0.25 | <0.05 | 20 | <0.05 | <0.05 | 0.12 | <0.22 | 0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.26 | <0.05 | <0.05 | <0.1 | - | - |
| SS03 | 0 | 0.1 | 16/07/2013 | ND | | ND | 0.09 | <0.05 | 0.11 | 1.81 | <0.05 | 0.3 | <0.05 | <0.05 | 0.13 | <0.27 | 1.7 | <0.05 | 0.07 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | - | - |
| SS04 | 0 | 0.1 | 16/07/2013 | ND | | ND | <0.05 | <0.05 | <0.05 | 1.15 | <0.05 | 8.2 | <0.05 | <0.05 | <0.05 | <0.15 | 1.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.24 | <0.05 | <0.05 | <0.1 | - | - |
| SA01/A01 | 0 | 0.1 | 25/09/2013 | Chrysotile | | 0.0005% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA02/A02 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA03/A03 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA04/A04 | 0 | 0.1 | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA05/A05 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0 | 0.1 | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0.3 | 0.4 | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA07/A07 | 0 | 0.1 | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA08/A08 | 0 | 0.1 | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA09/A09 | 0 | 0.1 | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA10/A10 | 0 | 0.1 | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA11/A11 | 0 | 0.1 | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA13/A13 | 0 | 0.1 | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Main Hall (under building) | 0 | 0 | 25/09/2013 | | 0.0149% | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accomodation Building (under building) | 0 | 0 | 25/09/2013 | | 0.0303% | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unsealed External Areas | 0 | 0.01 | 25/09/2013 | | 0.0084% | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A01, A04, A10 | 0.15 | 0.15 | 25/09/2013 | | 0.0090% | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A06, A10 | 0.15 | 0.15 | 25/09/2013 | | 0.0038% | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA01 | 0 | 0.1 | 25/09/2013 | | | | 0.27 | - | 0.07 | 0.21 | < 0.05 | 31 | < 0.05 | 0.08 | 1.1 | 1.45 | 0.14 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.13 | < 0.05 | < 0.05 | < 0.05 | < 1 | - | - |
| HA02 | 0 | 0.1 | 25/09/2013 | | | | 0.23 | - | < 0.05 | <0.1 | < 0.05 | 51 | < 0.05 | 0.09 | 0.73 | 1.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.08 | 0.23 | < 0.05 | < 0.05 | < 1 | - | - |
| HA03 | 0 | 0.1 | 25/09/2013 | | | | 0.57 | - | < 0.05 | <0.11 | < 0.05 | 140 | < 0.05 | 0.18 | 1.6 | 2.35 | 0.06 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.14 | 0.51 | < 0.05 | < 0.05 | < 1 | - | - |
| HA04 | 0 | 0.1 | 25/09/2013 | | | | < 0.05 | - | < 0.05 | <0.1 | < 0.05 | 4.7 | < 0.05 | < 0.05 | 0.41 | <0.51 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.07 | < 0.05 | < 0.05 | < 1 | - | - |
| HA05 | 0 | 0.1 | 25/09/2013 | | | | < 0.05 | - | < 0.05 | <0.1 | < 0.05 | < 0.1 | < 0.05 | < 0.05 | 0.12 | <0.22 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | - | - |
| QC01 (HA05) | 0 | 0.1 | 26/09/2013 | | | | < 0.05 | - | < 0.05 | <0.1 | < 0.05 | < 0.1 | < 0.05 | < 0.05 | 0.06 | <0.22 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | | |
| QC01A (HA05) | 0 | 0.1 | 26/09/2013 | | | | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.3 | <0.1 | <0.1 | | <0.1 | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | | | |
| HA06/SA11 | 0 | 0.1 | 25/09/2013 | ND | | | 0.49 | - | < 0.05 | <0.87 | < 0.05 | < 0.1 | < 0.05 | 0.27 | 4.2 | 4.96 | 0.82 | < 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | - | - |
| HA07/SA12 | 0 | 0.1 | 25/09/2013 | | | | 0.05 | - | 0.26 | 28.26 | < 0.05 | 0.3 | < 0.05 | < 0.05 | 0.26 | <0.36 | 28 | < 0.05 | 0.96 | < 0.05 | < 0.05 | < 0.05 | 0.7 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | - | - |
| HA08/SA13 | 0 | 0.1 | 25/09/2013 | ND | | | < 0.05 | - | < 0.05 | <0.13 | < 0.05 | < 0.1 | < 0.05 | < 0.05 | 0.13 | <0.23 | 0.08 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | - | - |
| HA09 | 0 | 0.2 | 25/09/2013 | | | | 0.07 | - | 0.06 | 55.06 | < 0.05 | 0.3 | < 0.05 | < 0.05 | 0.22 | <0.34 | 55 | < 0.05 | 0.58 | < 0.05 | < 0.05 | < 0.05 | 0.93 | < 0.05 | < 0.05 | 0.06 | < 0.05 | < 0.05 | < 1 | - | - |
| HA10 | 0 | 0.2 | 25/09/2013 | | | | < 0.5 | - | 86 | 506 | < 0.05 | 5.4 | < 0.05 | < 0.05 | < 0.05 | <0.55 | 420 | < 0.05 | 8.5 | < 0.05 | < 0.05 | < 0.05 | 6.5 | < 0.05 | 0.87 | 0.11 | < 0.05 | < 0.05 | < 1 | - | - |
| HA11 | 0 | 0.1 | 25/09/2013 | | | | 0.13 | - | < 0.05 | <0.44 | < 0.05 | 42 | < 0.05 | 0.06 | 0.16 | 0.35 | 0.39 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.2 | 1 | < 0.05 | < 0.05 | < 1 | - | - |

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## 114 Newdegate Street Greenslopes Soil Data

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Sampled_Date | Asbestos | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Asbestos (ID) | ACM (w/w) | Asbestos Fines (w/w) | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endrin aldehyde | Endrin ketone | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Organochlorine pesticides EPAVic | Other organochlorine pesticides EPAVic |
| Units | - | - | - | - | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | - | - | - | - | | - | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 1 | 0.1 | 0.1 |
| EIL - Res/Open Space | - | - | - | - | | - | | | | | | | | | 180 | | | | | | | | | | | | | | | | |
| HIL-A Residential | - | - | - | - | 0.01% | 0.001% | | | | 6 | | 50 | | | | 240 | | | | 270 | | | 10 | | 6 | | 10 | 300 | 20 | | |
| HIL-C Recreational | - | - | - | - | 0.02% | 0.001% | | | | 10 | | 70 | | | | 400 | | | | 340 | | | 20 | | 10 | | 10 | 400 | 30 | | |
| 1-0.0 | 0 | 0.1 | 1/10/2019 | | | | 0.82 | <0.05 | <0.05 | <0.05 | <0.05 | 0.3 | <0.05 | 0.13 | 0.9 | 1.85 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 2.15 | 0.3 |
| 1-0.3 | 0.3 | 0.3 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | <0.1 |
| 2-0.0 | 0 | 0.1 | 1/10/2019 | | | | 0.09 | <0.05 | <0.05 | 0.06 | <0.05 | 5.2 | <0.05 | <0.05 | 0.33 | 0.42 | 0.06 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 5.68 | 5.2 |
| QC01 | 0 | 0.1 | | | | | 0.11 | <0.05 | <0.05 | <0.05 | <0.05 | 2.1 | <0.05 | 0.36 | 0.06 | 0.53 | <0.05 | 0.05 | <0.05 | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | | |
| QC02 | 0 | 0.1 | | | | | 0.14 | <0.05 | <0.05 | <0.05 | <0.05 | 5.84 | <0.05 | <0.05 | 0.9 | 1.04 | <0.05 | <0.05 | <0.05 | <1.02 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.06 | <0.05 | <0.2 | - | | |
| 2-0.3 | 0.3 | 0.3 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.2 | 0.2 |
| QC03 | 0.3 | 0.3 | | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | | |
| QC04 | 0.3 | 0.3 | | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.23 | <0.05 | <0.05 | <0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | | |
| 3-0.0 | 0 | 0.1 | 1/10/2019 | | | | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.9 | <0.05 | 0.27 | 0.59 | 0.91 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 2.81 | 1.9 |
| 3-0.35 | 0.35 | 0.35 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | <0.1 |
| 4-0.0 | 0 | 0.1 | 1/10/2019 | | | | 0.31 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | 4.1 | 4.41 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 4.41 | <0.1 |
| 4-0.35 | 0.35 | 0.35 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | <0.1 |
| 5-0.0 | 0 | 0.1 | 1/10/2019 | | | | 1.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | 1.5 | 5.4 | 8.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 8.2 | <0.1 |
| 5-0.35 | 0.35 | 0.35 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | <0.1 |
| 6-0.0 | 0 | 0.1 | 1/10/2019 | | | | 0.17 | <0.05 | <0.05 | 0.08 | <0.05 | 5.5 | <0.05 | 0.06 | <0.05 | 0.23 | 0.08 | 0.07 | <0.05 | <0.05 | <0.05 | <0.05 | 0.05 | <0.05 | 0.26 | 0.89 | <0.05 | <0.05 | <1 | 7.08 | 6.77 |
| 6-0.45 | 0.45 | 0.45 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.5 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.26 | <0.05 | <0.05 | <1 | 0.76 | 0.76 |
| 6P-0.0 (HA02) | 0 | 0.1 | 1/10/2019 | | | | 0.19 | <0.05 | <0.05 | <0.05 | <0.05 | 4.2 | <0.05 | 0.06 | 0.33 | 0.58 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 4.78 | 4.2 |
| 6P-0.3 (HA02) | 0.3 | 0.3 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.3 | 0.3 |
| 7-0.0 | 0 | 0.1 | 1/10/2019 | | | | 0.26 | <0.05 | <0.05 | <0.05 | <0.05 | 16 | <0.05 | 0.08 | <0.05 | 0.34 | <0.05 | 0.24 | <0.05 | <0.05 | <0.05 | <0.05 | 0.12 | <0.05 | 1 | 3.4 | <0.05 | <0.05 | <1 | 21.1 | 20.76 |
| 7-0.45 | 0.45 | 0.45 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.4 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.18 | <0.05 | <0.05 | <1 | 0.58 | 0.58 |
| 7P-0.0 (HA03) | 0 | 0.1 | 1/10/2019 | | | | 0.15 | <0.05 | <0.05 | <0.05 | <0.05 | 2.3 | <0.05 | 0.05 | 0.17 | 0.37 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.09 | <0.05 | <0.05 | <1 | 2.76 | 2.39 |
| 7P-0.25 (HA03) | 0.25 | 0.25 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.4 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.4 | 0.4 |
| 8-0.0 | 0 | 0 | 1/10/2019 | | | | 0.1 | <0.05 | 0.56 | 23.56 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.1 | 23 | <0.05 | 0.12 | <0.05 | <0.05 | <0.05 | 0.23 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 23.89 | 0.23 |
| 8-0.42 | 0.42 | 0.42 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 1.3 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 1.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 1.3 | <0.1 |
| 9-0.0 | 0 | 0.1 | 1/10/2019 | | | | 0.2 | <0.05 | 0.08 | 60.08 | <0.05 | 0.2 | <0.05 | <0.05 | <0.05 | 0.2 | 60 | <0.05 | 0.36 | <0.05 | <0.05 | <0.05 | 0.83 | <0.05 | <0.05 | 0.06 | <0.05 | <0.05 | <1 | 61.37 | 1.09 |
| 9-0.42 | 0.42 | 0.42 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 0.36 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.36 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.36 | <0.1 |
| 9P-0.0 (HA09) | 0 | 0.1 | 1/10/2019 | | | | 0.1 | <0.05 | <0.05 | 18 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.1 | 18 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 18.26 | 0.16 |
| 9P-0.45 (HA09) | 0.45 | 0.45 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 0.13 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.13 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.13 | <0.1 |
| 10-0.0 | 0 | 0.1 | 1/10/2019 | | | | 0.11 | <0.05 | 0.1 | 28.1 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.11 | 28 | <0.05 | 0.13 | <0.05 | <0.05 | <0.05 | 0.21 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 28.42 | 0.21 |
| 10-0.45 | 0.45 | 0.45 | 1/10/2019 | | | | 0.14 | <0.05 | 0.21 | 9.51 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.14 | 9.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.06 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 9.71 | <0.1 |
| 11-0.0 | 0 | 0.1 | 1/10/2019 | | | | 0.34 | <0.05 | 0.06 | 36.06 | <0.05 | 0.1 | <0.05 | 0.18 | <0.05 | 0.52 | 36 | <0.05 | 0.31 | <0.05 | <0.05 | <0.05 | 0.73 | <0.05 | <0.05 | 0.18 | <0.05 | <0.05 | <1 | 37.59 | 1.01 |
| 11-0.45 | 0.45 | 0.45 | 1/10/2019 | | | | 0.22 | <0.05 | <0.05 | 14 | <0.05 | <0.1 | <0.05 | 0.15 | <0.05 | 0.37 | 14 | <0.05 | 0.05 | <0.05 | <0.05 | <0.05 | 0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 14.47 | 0.1 |
| 12-0.0 | 0 | 0.1 | 1/10/2019 | | | | 0.15 | <0.05 | 0.81 | 4.31 | <0.05 | <0.1 | <0.05 | 0.15 | 0.21 | 0.51 | 3.5 | <0.05 | 0.28 | <0.05 | <0.05 | <0.05 | 0.08 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 4.9 | <0.1 |
| 12-0.25 | 0.25 | 0.25 | 1/10/2019 | | | | <0.05 | <0.05 | 0.11 | 0.47 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.36 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.47 | <0.1 |

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## 114 Newdegate Street Greenslopes Soil Data

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Sampled_Date | Asbestos | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Asbestos (ID) | ACM (w/w) | Asbestos Fines (w/w) | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endrin aldehyde | Endrin ketone | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Organochlorine pesticides EPAVic | Other organochlorine pesticides EPAVic |
| Units | - | - | - | - | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | - | - | - | - | | - | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 1 | 0.1 | 0.1 |
| EIL - Res/Open Space | - | - | - | - | | - | | | | | | | | | 180 | | | | | | | | | | | | | | | | | |
| HIL-A Residential | - | - | - | - | 0.01% | 0.001% | | | | 6 | | 50 | | | | 240 | | | | 270 | | | 10 | | 6 | | 10 | 300 | 20 | | | |
| HIL-C Recreational | - | - | - | - | 0.02% | 0.001% | | | | 10 | | 70 | | | | 400 | | | | 340 | | | 20 | | 10 | | 10 | 400 | 30 | | | |
| 13P-0.0 (HA07) | 0 | 0.1 | 1/10/2019 | | | | 0.13 | <0.05 | <0.05 | 7.5 | <0.05 | <0.1 | <0.05 | 0.11 | 0.08 | 0.32 | 7.5 | <0.05 | 0.17 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 7.82 | <0.1 |
| 13P-0.2 (HA07) | 0.2 | 0.2 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 10 | <0.05 | <0.1 | <0.05 | <0.05 | 0.05 | 0.05 | 10 | <0.05 | 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 10.05 | <0.1 |
| 14-0.0 | 0 | 0.1 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 0.07 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.07 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | <0.1 |
| 14-0.45 | 0.45 | 0.45 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | <0.1 |
| 14P-0.0 (HA10) | 0 | 0.1 | 1/10/2019 | | | | 0.12 | <0.05 | 1.1 | 61.1 | <0.05 | 0.1 | <0.05 | <0.05 | <0.05 | 0.12 | 60 | <0.05 | 0.58 | <0.05 | <0.05 | <0.05 | 0.62 | <0.05 | <0.05 | 0.09 | <0.05 | <0.05 | <1 | 62.03 | 0.81 |
| QC07 | 0 | 0.1 | 1/10/2019 | | | | 0.24 | <0.05 | 1.9 | 75.9 | <0.05 | 0.3 | <0.05 | 0.05 | <0.05 | 0.29 | 74 | <0.05 | 1.2 | <0.05 | <0.05 | <0.05 | 1.2 | <0.05 | 0.06 | 0.22 | <0.05 | <0.05 | <1 | | | |
| QC08 | 0 | 0.1 | 1/10/2019 | | | | <0.05 | <0.05 | 2.32 | 109 | <0.05 | 0.37 | <0.05 | <0.05 | <0.2 | <0.05 | 107 | <0.05 | 1.4 | <0.05 | <0.05 | <0.05 | 1.47 | <0.05 | 0.16 | 0.22 | <0.05 | <0.2 | - | | | |
| 14P-0.42 (HA10) | 0.42 | 0.42 | 1/10/2019 | | | | <0.05 | <0.05 | 0.06 | 3.86 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 3.8 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 3.86 | <0.1 |
| QC09 | 0 | 0.1 | 1/10/2019 | | | | <0.05 | <0.05 | 0.06 | 5.06 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 5 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | | |
| QC10 | 0 | 0.1 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 3.08 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 | 3.08 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | | | |
| 15-0.0 | 0 | 0.1 | 1/10/2019 | | | | <0.05 | <0.05 | 0.09 | 8.29 | <0.05 | 7.4 | <0.05 | <0.05 | <0.05 | <0.05 | 8.2 | 0.13 | 0.09 | 0.26 | <0.05 | <0.05 | 0.09 | <0.05 | 0.19 | 0.38 | <0.05 | <0.05 | <1 | 16.74 | 8.45 |
| 16-0.0 | 0 | 0.1 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.11 | <0.05 | <0.05 | <1 | 1.41 | 1.41 |
| 16-0.45 | 0.45 | 0.45 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | <0.1 |
| 17-0.0 | 0 | 0.1 | 1/10/2019 | | | | 0.18 | <0.05 | <0.05 | 0.62 | <0.05 | <0.1 | <0.05 | <0.05 | 0.18 | 0.36 | 0.62 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.98 | <0.1 |
| 17-0.25 | 0.25 | 0.25 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | <0.1 |
| 18-0.0 | 0 | 0.1 | 1/10/2019 | | | | 2.2 | <0.05 | <0.05 | 0.61 | <0.05 | <0.1 | <0.05 | 0.35 | 3.8 | 6.35 | 0.61 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 6.96 | <0.1 |
| 18-0.2 | 0.2 | 0.2 | 1/10/2019 | | | | 0.11 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | 0.07 | 0.18 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.18 | <0.1 |
| 32-0.0 | 0 | 0.1 | 1/10/2019 | | | | 1.4 | <0.05 | <0.05 | 0.3 | <0.05 | 0.1 | <0.05 | 2.1 | 23 | 26.5 | 0.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 26.9 | 0.1 |
| 34-0.0 | 0 | 0.1 | 1/10/2019 | | | | 1 | <0.05 | 0.49 | 17.49 | <0.05 | <0.1 | <0.05 | 0.15 | 0.51 | 1.66 | 17 | <0.05 | 0.22 | <0.05 | <0.05 | <0.05 | 0.18 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 19.33 | 0.18 |
| 36-0.0 | 0 | 0.1 | 1/10/2019 | | | | 0.07 | <0.05 | <0.05 | 20 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.07 | 20 | <0.05 | 0.12 | <0.05 | <0.05 | <0.05 | 0.11 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 20.18 | 0.11 |

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## 114 Newdegate Street Greenslopes Soil Data

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Sampled_Date | Organophosphate Pesticides | | | | | | | | | | | | | | | | | | | | Polyaromatic Hydrocarbons (PAH) | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Azinophos methyl | Bolstar (Sulprofos) | Chlorpyrifos | Demeton-O | Diazinon | Dichlorvos | Disulfoton | Ethion | Ethoprop | Fenitrothion | Fensulfothion | Fenthion | Merphos | Methyl parathion | Mevinphos (Phosdrin) | Naled (Dibrom) | Phorate | Ronnel | Trichloronate | Tokuthion | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(b+j)fluoranthene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | PAHs (Sum of total) | Phenanthrene | Pyrene |
| Units | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | 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 |
| EQL | - | - | - | | | | | | | | | | | | | | | | | | | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| EIL - Res/Open Space | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.7 | | | | | | | | 170 | | | |
| HIL-A Residential | - | - | - | | | | | | | | | | | | | | | | | | | | | 3 | 3 | 3 | | | | | | | | | | | | | | | 300 | | |
| HIL-C Recreational | - | - | - | | | | | | | | | | | | | | | | | | | | | 3 | 3 | 3 | | | | | | | | | | | | | | | 300 | | |
| SS01 | 0 | 0.1 | 16/07/2013 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.5 | <0.2 | <0.2 | <0.2 | <0.2 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| SS02 | 0 | 0.1 | 16/07/2013 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.5 | <0.2 | <0.2 | <0.2 | <0.2 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| SS03 | 0 | 0.1 | 16/07/2013 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.5 | <0.2 | <0.2 | <0.2 | <0.2 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| SS04 | 0 | 0.1 | 16/07/2013 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.5 | <0.2 | <0.2 | <0.2 | <0.2 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| SA01/A01 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA02/A02 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA03/A03 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA04/A04 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA05/A05 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0.3 | 0.4 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA07/A07 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA08/A08 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA09/A09 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA10/A10 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA11/A11 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA13/A13 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Main Hall (under building) | 0 | 0 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accomodation Building (under building) | 0 | 0 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unsealed External Areas | 0 | 0.01 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A01, A04, A10 | 0.15 | 0.15 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A06, A10 | 0.15 | 0.15 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA01 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA02 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA03 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA04 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA05 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QC01 (HA05) | 0 | 0.1 | 26/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC01A (HA05) | 0 | 0.1 | 26/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA06/SA11 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA07/SA12 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA08/SA13 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA09 | 0 | 0.2 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA10 | 0 | 0.2 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA11 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

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## 114 Newdegate Street Greenslopes Soil Data

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Sampled_Date | Organophosphate Pesticides | | | | | | | | | | | | | | | | | | | | | Polyaromatic Hydrocarbons (PAH) | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Azinophos methyl | Bolstar (Sulprofos) | Chlorpyrifos | Demeton-O | Diazinon | Dichlorvos | Disulfoton | Ethion | Ethoprop | Fenitrothion | Fensulfothion | Fenthion | Merphos | Methyl parathion | Mevinphos (Phosdrin) | Naled (Dibrom) | Phorate | Ronnel | Trichloronate | Tokuthion | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(b+j)fluoranthene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | PAHs (Sum of total) | Phenanthrene | Pyrene |
| Units | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | 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 |
| EQL | - | - | - | | | | | | | | | | | | | | | | | | | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| EIL - Res/Open Space | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.7 | | | | | | | | 170 | | | |
| HIL-A Residential | - | - | - | | | | | | | | | | | | | | | | | | | | | 3 | 3 | 3 | | | | | | | | | | | | | | | 300 | | |
| HIL-C Recreational | - | - | - | | | | | | | | | | | | | | | | | | | | | 3 | 3 | 3 | | | | | | | | | | | | | | | 300 | | |
| 1-0.0 | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-0.3 | 0.3 | 0.3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-0.0 | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QC01 | 0 | 0.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC02 | 0 | 0.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-0.3 | 0.3 | 0.3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC03 | 0.3 | 0.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC04 | 0.3 | 0.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3-0.0 | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3-0.35 | 0.35 | 0.35 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4-0.0 | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4-0.35 | 0.35 | 0.35 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5-0.0 | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5-0.35 | 0.35 | 0.35 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6-0.0 | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6-0.45 | 0.45 | 0.45 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 6P-0.0 (HA02) | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6P-0.3 (HA02) | 0.3 | 0.3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7-0.0 | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7-0.45 | 0.45 | 0.45 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 7P-0.0 (HA03) | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7P-0.25 (HA03) | 0.25 | 0.25 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8-0.0 | 0 | 0 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8-0.42 | 0.42 | 0.42 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9-0.0 | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9-0.42 | 0.42 | 0.42 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9P-0.0 (HA09) | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9P-0.45 (HA09) | 0.45 | 0.45 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10-0.0 | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10-0.45 | 0.45 | 0.45 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11-0.0 | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11-0.45 | 0.45 | 0.45 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12-0.0 | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12-0.25 | 0.25 | 0.25 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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## 114 Newdegate Street Greenslopes Soil Data

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Sampled_Date | Organophosphate Pesticides | | | | | | | | | | | | | | | | | | | | Polyaromatic Hydrocarbons (PAH) | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Azinophos methyl | Bolstar (Sulprofos) | Chlorpyrifos | Demeton-O | Diazinon | Dichlorvos | Disulfoton | Ethion | Ethoprop | Fenitrothion | Fensulfothion | Fenthion | Merphos | Methyl parathion | Mevinphos (Phosdrin) | Naled (Dibrom) | Phorate | Ronnel | Trichloronate | Tokuthion | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(b+j)fluoranthene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | PAHs (Sum of total) | Phenanthrene | Pyrene |
| Units | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | 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 |
| EQL | - | - | - | | | | | | | | | | | | | | | | | | | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| EIL - Res/Open Space | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.7 | | | | | | | | 170 | | | |
| HIL-A Residential | - | - | - | | | | | | | | | | | | | | | | | | | | | 3 | 3 | 3 | | | | | | | | | | | | | | | 300 | | |
| HIL-C Recreational | - | - | - | | | | | | | | | | | | | | | | | | | | | 3 | 3 | 3 | | | | | | | | | | | | | | | 300 | | |
| 13P-0.0 (HA07) | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 13P-0.2 (HA07) | 0.2 | 0.2 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 14-0.0 | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 14-0.45 | 0.45 | 0.45 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14P-0.0 (HA10) | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QC07 | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC08 | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14P-0.42 (HA10) | 0.42 | 0.42 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC09 | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC10 | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15-0.0 | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 16-0.0 | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 16-0.45 | 0.45 | 0.45 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17-0.0 | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 17-0.25 | 0.25 | 0.25 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18-0.0 | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18-0.2 | 0.2 | 0.2 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 32-0.0 | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 34-0.0 | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 36-0.0 | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

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## 114 Newdegate Street Greenslopes Soil Data

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Sampled_Date | Metals | | | | | | | | TRH | | | | BTEX | | | | | | | Other | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc | C6-C10 | C10-C16 | C16-C34 | C34-C40 | Benzene | Toluene | Ethyl benzene | Xylene (m & p) | Xylene (o) | Xylenes | Total BTEX | CEC | pH | | |
| Units | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | | | | |
| EQL | - | - | - | 2 | 0.4 | 5 | 5 | 5 | 0.1 | 5 | 5 | | | | | | | | | | | | | | | |
| EIL - Res/Open Space | - | - | - | 100 | | 224 | 201 | 1100 | | 288 | 457 | | | | | | | | | | | | | | | |
| HIL-A Residential | - | - | - | 100 | 20 | 100 | 6000 | 300 | 10 | 400 | 7400 | | | | | | | | | | | | | | | |
| HIL-C Recreational | - | - | - | 300 | 90 | 300 | 17000 | 600 | 13 | 1200 | 30000 | | | | | | | | | | | | | | | |
| SS01 | 0 | 0.1 | 16/07/2013 | 32 | 0.7 | 54 | 21 | 39 | <0.1 | 35 | 760 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | | | | | |
| SS02 | 0 | 0.1 | 16/07/2013 | 10 | 1.4 | 12 | 27 | 100 | <0.1 | 8.4 | 2000 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | | | | | |
| SS03 | 0 | 0.1 | 16/07/2013 | 16 | 0.4 | 42 | 20 | 75 | <0.1 | 18 | 190 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | | | | | |
| SS04 | 0 | 0.1 | 16/07/2013 | 10 | 0.6 | 22 | 33 | 72 | <0.1 | 11 | 250 | <20 | <50 | 260 | <100 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | | | | | |
| SA01/A01 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| SA02/A02 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| SA03/A03 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| SA04/A04 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| SA05/A05 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0.3 | 0.4 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| SA07/A07 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| SA08/A08 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| SA09/A09 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| SA10/A10 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| SA11/A11 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| SA13/A13 | 0 | 0.1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| Main Hall (under building) | 0 | 0 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| Accomodation Building (under building) | 0 | 0 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| Unsealed External Areas | 0 | 0.01 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| A01, A04, A10 | 0.15 | 0.15 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| A06, A10 | 0.15 | 0.15 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| HA01 | 0 | 0.1 | 25/09/2013 | 9.3 | < 0.4 | 39 | 8.1 | 7.3 | < 0.1 | 20 | 64 | | | | | | | | | | | | | | | |
| HA02 | 0 | 0.1 | 25/09/2013 | 14 | < 0.4 | 44 | 6.4 | 15 | < 0.1 | 24 | 44 | | | | | | | | | | | | | | | |
| HA03 | 0 | 0.1 | 25/09/2013 | 20 | < 0.4 | 69 | 12 | 27 | < 0.1 | 25 | 92 | | | | | | | | | | | | | | | |
| HA04 | 0 | 0.1 | 25/09/2013 | 14 | < 0.4 | 54 | 11 | 14 | < 0.1 | 16 | 26 | | | | | | | | | | | | | | | |
| HA05 | 0 | 0.1 | 25/09/2013 | 17 | < 0.4 | 66 | 9.2 | 10 | < 0.1 | 19 | 45 | | | | | | | | | | | | | | | |
| QC01 (HA05) | 0 | 0.1 | 26/09/2013 | 21 | < 0.4 | 73 | 10 | 16 | < 0.1 | 20 | 54 | | | | | | | | | | | | | | | |
| QC01A (HA05) | 0 | 0.1 | 26/09/2013 | 11 | < 0.4 | 90 | 12 | 20 | < 0.1 | 27 | 74 | | | | | | | | | | | | | | | |
| HA06/SA11 | 0 | 0.1 | 25/09/2013 | 22 | < 0.4 | 88 | 9.3 | 13 | < 0.1 | 19 | 41 | | | | | | | | | | | | | | | |
| HA07/SA12 | 0 | 0.1 | 25/09/2013 | 15 | < 0.4 | 43 | 13 | 63 | < 0.1 | 15 | 140 | | | | | | | | | | | | 30 | 5.8 | | |
| HA08/SA13 | 0 | 0.1 | 25/09/2013 | 10 | < 0.4 | 39 | 14 | 50 | < 0.1 | 11 | 72 | | | | | | | | | | | | | | | |
| HA09 | 0 | 0.2 | 25/09/2013 | 10 | < 0.4 | 25 | 24 | 120 | 0.1 | 8.8 | 380 | | | | | | | | | | | | | | | |
| HA10 | 0 | 0.2 | 25/09/2013 | 19 | < 0.4 | 22 | 19 | 120 | < 0.1 | 8.7 | 330 | | | | | | | | | | | | | | | |
| HA11 | 0 | 0.1 | 25/09/2013 | 23 | < 0.4 | 50 | 15 | 140 | < 0.1 | 13 | 450 | | | | | | | | | | | | 25 | 6.3 | | |

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## 114 Newdegate Street Greenslopes Soil Data

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Sampled_Date | Metals | | | | | | | | TRH | | | | BTEX | | | | | | | Other | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc | C6-C10 | C10-C16 | C16-C34 | C34-C40 | Benzene | Toluene | Ethyl benzene | Xylene (m & p) | Xylene (o) | Xylenes | Total BTEX | CEC | pH | | |
| Units | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | | | | |
| EQL | - | - | - | 2 | 0.4 | 5 | 5 | 5 | 0.1 | 5 | 5 | | | | | | | | | | | | | | | |
| EIL - Res/Open Space | - | - | - | 100 | | 224 | 201 | 1100 | | 288 | 457 | | | | | | | | | | | | | | | |
| HIL-A Residential | - | - | - | 100 | 20 | 100 | 6000 | 300 | 10 | 400 | 7400 | | | | | | | | | | | | | | | |
| HIL-C Recreational | - | - | - | 300 | 90 | 300 | 17000 | 600 | 13 | 1200 | 30000 | | | | | | | | | | | | | | | |
| 1-0.0 | 0 | 0.1 | 1/10/2019 | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 1-0.3 | 0.3 | 0.3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| 2-0.0 | 0 | 0.1 | 1/10/2019 | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| QC01 | 0 | 0.1 | | | | | | | | | | | | | | | | | | | | | | | | |
| QC02 | 0 | 0.1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-0.3 | 0.3 | 0.3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| QC03 | 0.3 | 0.3 | | | | | | | | | | | | | | | | | | | | | | | | |
| QC04 | 0.3 | 0.3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3-0.0 | 0 | 0.1 | 1/10/2019 | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 3-0.35 | 0.35 | 0.35 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| 4-0.0 | 0 | 0.1 | 1/10/2019 | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 4-0.35 | 0.35 | 0.35 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| 5-0.0 | 0 | 0.1 | 1/10/2019 | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 5-0.35 | 0.35 | 0.35 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| 6-0.0 | 0 | 0.1 | 1/10/2019 | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 6-0.45 | 0.45 | 0.45 | 1/10/2019 | 2.1 | <0.4 | <5 | 11 | 32 | <0.1 | 5.8 | 72 | | | | | | | | | | | | | | | |
| 6P-0.0 (HA02) | 0 | 0.1 | 1/10/2019 | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 6P-0.3 (HA02) | 0.3 | 0.3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| 7-0.0 | 0 | 0.1 | 1/10/2019 | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 7-0.45 | 0.45 | 0.45 | 1/10/2019 | 2.6 | <0.4 | <5 | 12 | 19 | <0.1 | 5.8 | 51 | | | | | | | | | | | | | | | |
| 7P-0.0 (HA03) | 0 | 0.1 | 1/10/2019 | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 7P-0.25 (HA03) | 0.25 | 0.25 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| 8-0.0 | 0 | 0 | 1/10/2019 | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 8-0.42 | 0.42 | 0.42 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| 9-0.0 | 0 | 0.1 | 1/10/2019 | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 9-0.42 | 0.42 | 0.42 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| 9P-0.0 (HA09) | 0 | 0.1 | 1/10/2019 | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 9P-0.45 (HA09) | 0.45 | 0.45 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| 10-0.0 | 0 | 0.1 | 1/10/2019 | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 10-0.45 | 0.45 | 0.45 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| 11-0.0 | 0 | 0.1 | 1/10/2019 | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 11-0.45 | 0.45 | 0.45 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| 12-0.0 | 0 | 0.1 | 1/10/2019 | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 12-0.25 | 0.25 | 0.25 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |

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## 114 Newdegate Street Greenslopes Soil Data

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Sampled_Date | Metals | | | | | | | | TRH | | | | BTEX | | | | | | | Other | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc | C6-C10 | C10-C16 | C16-C34 | C34-C40 | Benzene | Toluene | Ethyl benzene | Xylene (m & p) | Xylene (o) | Xylenes | Total BTEX | CEC | pH | | |
| Units | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | | | | |
| EQL | - | - | - | 2 | 0.4 | 5 | 5 | 5 | 0.1 | 5 | 5 | | | | | | | | | | | | | | | |
| EIL - Res/Open Space | - | - | - | 100 | | 224 | 201 | 1100 | | 288 | 457 | | | | | | | | | | | | | | | |
| HIL-A Residential | - | - | - | 100 | 20 | 100 | 6000 | 300 | 10 | 400 | 7400 | | | | | | | | | | | | | | | |
| HIL-C Recreational | - | - | - | 300 | 90 | 300 | 17000 | 600 | 13 | 1200 | 30000 | | | | | | | | | | | | | | | |
| 13P-0.0 (HA07) | 0 | 0.1 | 1/10/2019 | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 13P-0.2 (HA07) | 0.2 | 0.2 | 1/10/2019 | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 14-0.0 | 0 | 0.1 | 1/10/2019 | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 14-0.45 | 0.45 | 0.45 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| 14P-0.0 (HA10) | 0 | 0.1 | 1/10/2019 | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| QC07 | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| QC08 | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| 14P-0.42 (HA10) | 0.42 | 0.42 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| QC09 | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| QC10 | 0 | 0.1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| 15-0.0 | 0 | 0.1 | 1/10/2019 | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 16-0.0 | 0 | 0.1 | 1/10/2019 | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 16-0.45 | 0.45 | 0.45 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| 17-0.0 | 0 | 0.1 | 1/10/2019 | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 17-0.25 | 0.25 | 0.25 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| 18-0.0 | 0 | 0.1 | 1/10/2019 | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 18-0.2 | 0.2 | 0.2 | 1/10/2019 | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 32-0.0 | 0 | 0.1 | 1/10/2019 | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 34-0.0 | 0 | 0.1 | 1/10/2019 | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 36-0.0 | 0 | 0.1 | 1/10/2019 | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |

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# RE: DVA Greenslopes - Installation of Groundwater Monitoring Well - Wed 17/11

Louise Cartwright <lcartwright@epicenvironmental.com.au>

Mon 15/11/2021 11:45 PM

To:Wicks, Jeremy <Jeremy.Wicks@coffey.com>
Cc:Binny, Dave <Dave.Binny@dva.gov.au>;Page, Michael <Michael.Page@coffey.com>

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

Hi Jeremy,

Thank you for the information. I am on the Gold Coast early tomorrow morning but may drop by on my way back to Brisbane, depending on time.

A couple comments on below:

- As per comments from Dave – please comply with all site requirements
- It is noted works will be undertaken in accordance with Coffey SOPs – these have not been reviewed
- Groundwater – ionic balance would be useful
- QA/QC – please adopt for soil and groundwater sampling
- Consider thickness of the bentonite plug

Many thanks,
Louise

**Louise Cartwright**

Principal Environmental Scientist
Contaminated Land Auditor Qld
BAgSc(Hons), PhD(Soil Science), CPSS CSAM

M: +61 0477 074 334

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**From:** Wicks, Jeremy <Jeremy.Wicks@coffey.com>
**Sent:** Monday, 15 November 2021 4:59 PM
**To:** Louise Cartwright <lcartwright@epicenvironmental.com.au>
**Cc:** Binny, Dave <Dave.Binny@dva.gov.au>; Page, Michael <Michael.Page@coffey.com>
**Subject:** DVA Greenslopes - Installation of Groundwater Monitoring Well - Wed 17/11

Hi Louise

As discussed we have been give the approval to install the groundwater monitoring well on the site. Fortunately we have found a driller who has capacity to complete the well on Wed 17/11. After this (and the other drillers we spoke too) are booked out to the end of the year. We will be on-site from 7:30 am.

Access permitting the groundwater monitoring well will be installed in the north western corner of the site near BH19 (see attached plan). However if this is not possible we will install the monitoring well on the driveway between the two buildings (probably near BH14 in the attached plan).

The monitoring well will be drilled to a maximum depth of 6 m. If not groundwater is intersected at this depth a dry well will be installed. Further information on the installation and sampling of the monitoring well is provided below.

Please let me know if you have any questions.

Best regards

Jeremy

**Soil boring and Installation of Groundwater Monitoring Well**

The soil bore will be advanced using a Geoprobe environmental drilling rig (or similar) equipped with push tube sampling equipment. Solid stem augering methods will also be used to advance the soil bore to target depth in the event push tube refusal is encountered and/or to construct groundwater the monitoring well.

The groundwater well will be installed in accordance with the Minimum Construction Requirements for Water Bores in Australia, Edition 3. For installation of the groundwater monitoring well, Coffey will undertake the following scope of work:

- The groundwater monitoring well will be installed by Queensland licensed drillers and will be constructed of 50mm Class 18 PVC with a machine slotted screen.
- The well will be screened across the depth at which groundwater is intersected to capture any light non-aqueous phase liquids.
- The well annulus will be backfilled with clean sand to approx. 0.5 m above the height of the well screen followed by a bentonite plug.
- Drilling will be undertaken to two metres below observed groundwater intersection during drilling to allow the well screen interval (proposed 3m) to have two metres of groundwater below and one metre above the intersected groundwater to allow for some groundwater height fluctuation. If groundwater is not intersected a 3 m screen will be installed.
- At the surface, the well string will be sealed with a gripper and protected with a flush mounted trafficable gatic cover. After the installation of the groundwater well, the well will be developed using a bailer.
- The classification and logging of soil will be undertaken in accordance with Australian Standard AS 1726-2017. Descriptions and changes in lithology, and the presence of potential contaminated zones will be noted and recorded on the field borehole log.
- As the site is scheduled to be demolished, NDD wastes and soil cuttings from the bore will be retained on site in a way that leaves the site tidy and does not present a risk of contamination of offsite areas.
- If groundwater is encountered the monitoring well will be developed through the removal of three well volumes.

**Soil Sampling**

Soil samples will be collected at the following depth intervals 0-0.1 m, 0.25 m, 0.5m, 0.75m, 1m, and then 0.5 m intervals to he base of the borehole.

Laboratory analysis will be undertaken for OCPs in up to 4 samples.

**Groundwater Sampling**

A groundwater monitoring event (GME) will be undertaken no sooner than 7-days after the installation of the monitoring well (date to be confirmed). The GME will be undertaken in accordance with the following guidelines and procedures:

- Monitoring and Sampling Manual, Environmental Protection (Water) Policy 2009 (DES, 2018)
- ASC NEPM
- Coffey's standard operating procedures (SOPs):
  - Groundwater monitoring well gauging;
  - Groundwater sampling; and
  - Field equipment calibration.

Sampling of all newly installed well will be undertaken using the following methods:

- Gauging of the depth to water using an Interface Probe (IP).
- Groundwater will be collected using the low flow peristaltic purge methodology:
  - Groundwater physicochemical properties will be measured using an appropriately calibrated water quality meter. Groundwater pH, temperature, electrical conductivity, redox potential and dissolved oxygen concentrations will be measured within a flow through cell.
  - Samples will be collected once physicochemical parameters have stabilized.
  - Samples will be placed within laboratory prepared sample containers suitable for the required analyses.
- Samples will be placed within laboratory prepared sample containers suitable for the required analyses.
- Collected samples will be placed in eskies with ice for temporary storage and transport to the nominated NATA accredited laboratory.
- Storage of purged water in plastic containers on-site.

- Groundwater samples will be analysed for metals (standard 8) and OCPs.

**QA/QC**

QA/QC field samples collected will include:

| Sample Type | Comments |
|---|---|
| Intra-laboratory duplicates | Intra-laboratory field duplicates will be collected at a minimum frequency of one sample per twenty samples collected (5%). The analytical results of the duplicate samples will be compared to assess the precision of the sampling protocol and to provide an indication of variation in the sample source.<br><br>Repeatability will be assessed by calculating the relative percentage difference (RPD) between the primary and duplicate results. Where the RPD is greater than 30%, the potential causes of variability will be reviewed. |
| Inter-laboratory duplicates | Inter-laboratory field duplicates will be collected at a frequency of one sample per twenty samples collected (5%). The analytical results of the duplicate samples will be compared to assess the precision of the sampling protocol, provide an indication of variation in the sample source and to assess the accuracy of analysis.<br><br>Reproducibility will be assessed by calculating the relative percentage difference (RPD) between the primary and duplicate sample results. Where the RPD is greater than 30%, the potential causes of variability will be reviewed. |
| Rinsate blanks | Rinsate samples will be prepared in the field using empty bottles and the laboratory provided rinsate water. These samples will be a check of field decontamination procedures. A rinsate sample will be collected and analysed for each day of field work carried out, where non-disposable sampling equipment has been used. |
| Trip blank | Trip blanks will be prepared by the laboratory and are a check on sample contamination originating from sample transport, shipping and site conditions. The blank will remain with the sample containers during sampling and during the return trip to the laboratory. At no time during these procedures will the blanks be opened. Upon return to the laboratory the blank sample will be analysed as any other field sample. A trip blank will be used and analysed for a batch of samples released to the laboratory. |

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## L.2 REPORT ON SUPPLEMENTARY INVESTIGATION

# 114 Newdegate Street Greenslopes Remediation Planning

## Supplementary Investigation

Department of Veteran Affairs

**Reference: 754-BNEEN282781**

11 May 2022

# 114 NEWDEGATE STREET GREENSLOPES REMEDIATION PLANNING

Supplementary Investigation

**Report reference number: 754-BNEEN282781**
11 May 2022

## PREPARED FOR

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# 1. INTRODUCTION

The Department of Veteran Affairs (DVA) is planning the redevelopment of 114 Newdegate Street, Greenslopes (Lot 123-125 RP46047) ("the Site") for park/community use and pass the Land Title to Brisbane City Council (BCC). The location of the Site is shown in **Figure 1**, **Appendix A**.

The Site is listed on the Environmental Management Register (EMR) for Hazardous Contaminants as a result of organochlorine pesticides (OCPs) being previously detected in soil. The Site is not subject to a Site Management Plan (SMP) and the EMR listing does not include a Site Suitability Statement[1]. The Site currently contains two disused, large buildings with Asbestos Containing Materials (ACM).

Previous investigations have confirmed the presence of the OCPs Aldrin + Dieldrin which exceed the Schedule B1 *National Environment Protection (Assessment of Site Contamination) Measure 1999* (NEPM) Health-based Investigation Levels for recreational areas (HIL-C). OCPs are associated with historical application of termite barriers around buildings. Fragments of ACM and asbestos fines have also been reported in soil which exceed NEPM guidelines for recreational areas.

There are two remediation strategies which could be considered for the Site including:

- Partial remediation of the Site such that the property is suitable for Park and Community use and remains on the EMR. The strategy is likely to require a Contaminated Land Investigation Document (CLID) including a Site Suitability Statement and Draft SMP. As BCC will take ownership for the Site the Department of Environment and Science (DES) will require BCC to consent to the SMP (and therefore any residual contamination present on the Site and its on-going management).
- Full remediation of the Site enabling the Site to be removed from the EMR through completion of a CLID/Validation Report.

Site Auditor Certification will need to accompany the CLID/Draft SMP or Validation Report, and will be required prior to use of the Site for community use.

A review of the previous investigations identified data gaps which need to be addressed for the planning of remediation and redevelopment of the Site. These data gaps are described in:

- Coffey (2020) 114 Newdegate Street Greenslopes Remediation Planning, Sampling, Analysis and Quality Plan, 19 July 2021 ("the SAQP").

A supplementary investigation was undertaken to implement the scope of work described in the SAQP as well as comments provided by the Site Auditor on the SAQP.

The Commonwealth Department of Agriculture, Water and the Environment (DAWE). DAWE has determined the demolition and removal of the contaminated soil on the site as a controlled action under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) and requires further information before making a decision on whether the action can proceed, and any required conditions if approval is granted. In DAWE Request for Additional Information (RFAI), DAWE has made a recommendation to remove OCPs to the laboratory limits of detect (LOR). DAWE confirmed this requirement in a meeting on the 9 December 2021.

This report provides a summary of the findings of the supplementary investigation and the proposed remediation strategy for the Site. Following confirmation of the remediation strategy by DVA and the Site Auditor a Remediation Action Plan (RAP) will be prepared for the Site. Remediation of the Site is expected to take place in Q1-Q2 2022.

This report is to be read in conjunction with the limitations included in this report.

[1] A Site Suitability Statement is a statement prepared by a Suitably Qualified Person (SQP) which describes the permitted uses of the land, and whether there is a requirement for a SMP. The Site Suitability Statement can also include a statement that the site is 'suitable for any use' (i.e. can be removed from the EMR).

# 2. SITE DESCRIPTION

## 2.1 SITE IDENTIFICATION

The Site is located on the corner of Newdegate Street and Headfort Street, Greenslopes, Brisbane. The Site is shown in **Figure 2-1** below, and the location of the Site is Brisbane is shown in **Figure 1**, **Appendix A**.

**Figure 2-1 114 Newdegate Street, Greenslopes (Image source: Queensland Globe, 2021)**

Two buildings are located on the Site and comprise a former Main Hall Building and Accommodation Building (see Figure 2-1). The Site is currently not in use due to the condition of the buildings and the presence of ACM.

Further information on the Site and surrounding land use is summarised in **Table 2-1**.

**Table 2-1 Site Identification Details**

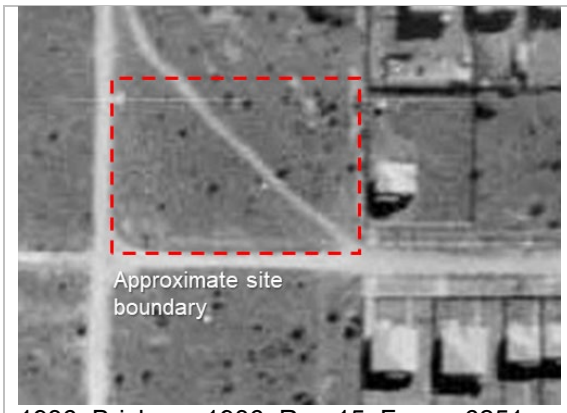
| Item | Detail |
|---|---|
| **Site Address** | 114 Newdegate Street, Greenslopes QLD |
| **Lot/Plan Number** | Lot 123 on RP46047<br>Lot 124 on RP46047<br>Lot 125 on RP46047 |
| **Current Zoning** | NC Neighbourhood Centre[2] |

[2] Brisbane City Plan 2014. Neighbourhood centre is a small mix of land uses to service residential neighbourhoods. It includes small-scale convenience shopping, professional offices, community services and other uses that directly support the immediate community.

| Item | Detail |
|---|---|
| **Local Council** | Brisbane City Council |
| **Total Site Area** | Approximately 1,933 m2 |
| **Site Owner** | The site is currently owned by Department of Veterans Affairs. |
| **Land Use** | The property currently consists of disused main hall and accommodation building. |
| **Surrounding Land Uses** | North – Residential houses and small cafeteria<br>East – Residential houses<br>South – Residential houses<br>West – Health care (Greenslopes Private Hospital) |

## 2.2 SITE HISTORY

Historical aerial photography shows the Site was cleared land in 1936, and potentially in use for rural purposes (see image below). The site was acquired by the Commonwealth of Australia in 1945 for the development of the Australian Red Cross Centre (ARCC). The ARCC was developed on the Site in approximately 1945 and is shown in historical aerial imagery from 1946 (see image below).




1936: Brisbane 1936, Run 15, Frame 6251

1946: Brisbane 1946, Run 11A, Frame 34654

The ARCC was built to provide recreational services to military personnel who were patients at the 112th Australian Military Hospital. Post World War II, the ARCC was used for a similar purpose for service personnel and veterans. The buildings on the Site were later used for community purposes and to provide temporary accommodation for the families of patients at the Greenslopes Reparation Hospital[3]. The former ARCC buildings remain on the Site to the present day. It is not known whether historically there were smaller structures located on the Site which have subsequently been demolished and the source of any fill material used on the Site.

[3] https://heritage.brisbane.qld.gov.au/heritage-places/806, accessed 16 July 2021.

## 2.3 ENVIRONMENTAL MANAGEMENT REGISTER

The Site is listed on the EMR for Hazardous Contaminants including elevated concentrations of organochlorine pesticides (DDD/DDT/DDE and Aldrin/Dieldrin). EMR search results are included in **Appendix E**. Maximum concentrations reported on the Site from previous investigations are summarised in **Section 3**.

The Site is not subject to a SMP and the EMR listing does not include a Site Suitability Statement.

The Site is not listed on the Contaminated Land Register (CLR).

## 2.4 TOPOGRAPHY AND DRAINAGE

The Site is located at approximately 25 m AHD. Topography in the vicinity of the Site falls in an approximate north west direction towards the Norman Creek (drain[4]) in Ekibin Park East.

## 2.5 REGIONAL GEOLOGY AND HYDROGEOLOGY

Regional geology of the Site and surrounding land is the Neranleigh-Fernvale beds (DCf). This geological formation is described as feldspathic and lithic meta-arenite, metasiltstone and conglomerate proximal turbidites, with structurally intercalated or stratigraphically underlying chert, jasper and basic meta- volcanics[5].

The topography of the surrounding area is dominated by Stephen Mountain[6] which has a height of 55 m AHD and is located west of the Greenslopes Hospital and approximately 400 m west of the Site.

The nearest registered groundwater bore (RN 133887) is located approximately 900 m west of the Site, and was installed in the Neranleigh-Fernvale beds. The bore report for this registered bore has been abandoned/destroyed and describes groundwater as being located at approximately 51 m depth (approximately -10 m AHD[7]) and 'salty'.

Groundwater on the Site has not been previously investigated. Based on the regional geology and the Site being located in an elevated area off Stephens Mountain, groundwater is expected to occur in the Neranleigh-Fernvale beds at a depth greater than 30 m below ground surface (bgs).

## 2.6 ENVIRONMENTAL VALUES AND WATER QUALITY OBJECTIVES

The Site is located within freshwater reaches of Norman Creek Catchment as per the *Environmental Protection (Water) Policy 2009 South-east Queensland Map Series, PLAN WQ1431* (Queensland Government, 2010).

Under the Environmental Protection (Water) Policy (2009), the Site falls within the area covered by the '*Brisbane River Estuary - Environmental Values and Water Quality Objectives (2010) Basin No. 143 (part), including all creeks of the Brisbane River estuary, other than Oxley Creek* (Department of Environment and Resource Management, 2020). The environmental values identified for Norman Creek (freshwater) in this document are summarised below in **Table 2-2**.

[4] Note Norman Creek is a concrete lined drain in Ekibin Park East
[5] https://asud.ga.gov.au/search-stratigraphic-units/results/14021, accessed 1 September 2021
[6] Stephens Mountain has an elevation of 55 m AHD and is located west of Greenslopes Private Hospital and is approximately 400 m from the Site (https://qtopo.information.qld.gov.au/, accessed 1 September 2021)
[7] RN 133887 is located at approximately 40 m AHD

**Table 2-2 Water Quality Environmental Values**

| Water Resource | Environmental Values | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Aquatic ecosystems | Irrigation | Farm supply/use | Stock water | Aquaculture | Human consumer | Primary Recreation | Secondary recreation | Visual recreation | Drinking water | Industrial use | Cultural and spiritual values |
| Groundwater | ✓ | ✓ | ✓ | ✓ | | | | | | ✓ | | |
| Norman Ck Fresh Water | ✓ | | | | | | | ✓ | ✓ | | | ✓ |

## Water Quality Objectives for Protection of Environmental Values

The Brisbane River Estuary Environmental Values and Water Quality Objectives (2010) identifies the area in which the Site is located, to be a moderately disturbed ecosystem and refers to the following guidelines for water quality objectives:

- Australian drinking water guidelines (2011 updated December 2013) prepared by National Health and Medical Research Council (NHMRC)
- Australian and New Zealand guidelines for fresh and marine water quality 2000 (2018 edition) prepared by Australian and New Zealand Environment and Conservation Council (ANZECC) and the Agriculture and Resource Management Council of Australia and New Zealand (ARMCANZ) ("ANZECC Guidelines). For toxicants a 95% level of protection is assumed for lowland freshwater based on the management intent described in *Environmental Protection (Water) Policy 2009, South-east Queensland Map Series PLAN WQ1423* (Queensland Government, 2010)
- Guidelines for Managing Risks in Recreational Water (NHMRC, 2008).

# 3. PREVIOUS INVESTIGATIONS

Previous investigations of the Site were completed in 2013 and 2019. The investigations were undertaken based on the requirements of the ASC NEPM and involved undertaking phased investigations to assess the presence and then potential extent of contamination at the Site.

A brief summary of these investigations is provided in **Appendix F**, and further information on the investigations undertaken is included in the SAQP. Data from previous investigations has been included in the tables provided in **Appendix C**. Sample locations from previous investigations are shown in **Figure 2**, **Appendix A**.

Coffey (2019) describes soils on the Site to be mainly comprised of silty CLAY to 0.3 m, and CLAY with silt and sand to 0.5 m. Fill material containing anthropogenic materials (wood, brick, concrete, and/or slag) has also been found on the Site in previous investigations.

OCPs were detected in soils beneath and surrounding the buildings on the Site from the historical application of termiticides. Higher concentrations of OCPs have been reported in soil materials < 0.2 m below ground surface (bgs) and in the soil materials surrounding the perimeter of buildings. These findings are consistent with the application of termite barriers around the perimeter of buildings.

The maximum concentration of OCPs reported in previous investigations are summarised in **Table 3-1**.

**Table 3-1 Summary of OCP and Metal Soil Data from Previous Investigations**

| Analyte (mg/kg unless shown) | Maximum Value | HIL-A Residential Guidelines | No. of Samples Exceeding HIL-A Residential Guidelines | HIL-C Recreational Guidelines | No. of Samples Exceeding HIL-C Recreational Guidelines |
|---|---|---|---|---|---|
| **OCPs** | | | | | |
| 4,4-DDE | 2.2 | | - | | - |
| a-BHC | <0.1 | | - | | - |
| Aldrin | 2.32 | | - | | - |
| Aldrin + Dieldrin | 109 | 6 | 15 | 10 | 13 |
| b-BHC | <0.1 | | - | | - |
| chlordane | 140 | 50 | 2 | 70 | 1 |
| d-BHC | <0.1 | | - | | - |
| DDD | 2.1 | | - | | - |
| DDT | 23 | | - | | - |
| DDT+DDE+DDD | 26.5 | 240 | 0 | 400 | 0 |
| Dieldrin | 107 | | - | | - |
| Endrin aldehyde | 0.24 | | - | | - |
| Endrin ketone | 1.4 | | - | | - |
| Endosulfan I | 0.26 | 270 | 0 | 340 | 0 |
| Endosulfan II | <0.05 | | - | | - |
| Endosulfan sulphate | <0.1 | | - | | - |
| Endrin | 1.47 | 10 | 0 | 20 | 0 |
| g-BHC (Lindane) | <0.1 | | - | | - |
| Heptachlor | 1 | 6 | 0 | 10 | 0 |
| Heptachlor epoxide | 3.4 | | - | | - |
| Hexachlorobenzene | <0.1 | 10 | 0 | 10 | 0 |
| Methoxychlor | <0.2 | 300 | 0 | 400 | 0 |
| Toxaphene | <1 | 20 | 0 | 30 | 0 |
| **Metals** | | | | | |
| Arsenic | 32 | 100 | 0 | 300 | 0 |
| Cadmium | 1.4 | 20 | 0 | 90 | 0 |
| Chromium (III+VI) | 90 | 100 | 0 | 300 | 0 |

| Analyte (mg/kg unless shown) | Maximum Value | HIL-A Residential Guidelines | No. of Samples Exceeding HIL-A Residential Guidelines | HIL-C Recreational Guidelines | No. of Samples Exceeding HIL-C Recreational Guidelines |
|---|---|---|---|---|---|
| Copper | 33 | 6000 | 0 | 17000 | 0 |
| Lead | 140 | 300 | 0 | 600 | 0 |
| Mercury | 0.1 | 10 | 0 | 13 | 0 |
| Nickel | 35 | 400 | 0 | 1200 | 0 |
| Zinc | 2000 | 7400 | 0 | 30000 | 0 |

In summary elevated concentrations of Aldrin + Dieldrin (mainly Dieldrin) have been found which exceed ASC NEPM health based guidelines for open space and recreation areas (HIL-C) and residential landuse with accessible gardens (HIL-A). Chlordane also exceeded HIL-C and HIL-A guidelines in one sample, and HIL-A guidelines in another sample.

As shown in **Table 3-1** a range of other OCPs have also been detected with concentrations below HIL-C and HIL-A guidelines including:

- DDT+DDE+DDD
- Endosulfan I
- Endrin
- Heptachlor.

Endrin aldehyde and endrin ketone were also detected in samples analysed and do not have guideline values in the NEPM. These compounds are breakdown products of endrin.

Heptachlor epoxide which is a breakdown product of heptachlor were also detected in samples analysed and does not have guideline values in the NEPM.

All samples of metals analysed were below the NEPM HIL-C and HIL-A guidelines, however elevated concentrations of zinc (in comparison to other samples) were noted in sample locations SS01 and SS02.

Fragments of Asbestos Containing Materials (ACM) and/or asbestos fines which exceed the nominated ILs have been reported in previous investigations of the Site at the following locations (refer to Figure 3):

- SS01
- SS02
- SA01/A01
- Main Hall (under building)
- Accommodation Building (under building)
- Unsealed External Areas
- A01, A04, A10
- A06, A10

Previous investigations of the Site did not report the detection of other potential contaminants of concern (PCOC) including organophosphate pesticides (OPPs), poly aromatic hydrocarbons (PAH) including soil materials containing a slag type material, and total recoverable hydrocarbons (TRH).

## 3.1 DATA GAPS

Based on a review of the previous investigations the following data gaps were identified and described in the SAQP:

- Previous investigations have not sampled soil materials beneath the concrete slab located along the northern half of the Accommodation Building, and beneath the concrete pavement along the eastern boundary of the Site.
- Elevated concentrations of zinc were found at two locations in Area 2 (SS01 and SS02). While the concentrations are below NEPM Guidelines for Parks and Open Spaces, recipient landfills may require leachability tests for waste classification purposes.
- The potential for contamination in the concrete slabs has not been previously investigated. OCPs have the potential to be present in concrete slabs as wells as building stumps/footings.
- Soil materials containing slag have been analysed however it is recommended that the slag materials be analysed for waste disposal purposes.

Based on discussion with the Site Auditor on the SAQP it was identified that further consideration on the risk to groundwater was required and the Site Auditor recommended that a groundwater monitoring well be installed if there was a requirement to remove the Site from the EMR.

The OCP contaminants of concern have low solubility and based on geology and topography groundwater is expected to be deep on the Site (>20 m below ground surface, refer to **Section 2.5**) and accordingly the risk to groundwater was considered to be low. Notwithstanding this, in order to confirm that there was not a groundwater receptor on the Site which could be impacted from leaching of OCPs it was agreed that a groundwater well would be installed on the Site to a maximum depth of 6 m bgs.

The supplementary investigation was undertaken to address these data gaps.

## 3.2 CONTAMINANTS OF CONCERN

Based on previous investigations the following PCOC are considered to be relevant to the Site:

- OCPs
- Asbestos fines and ACM
- Metals (zinc)

While previous investigations have investigated soil materials containing a slag type material, the slag type material has not been investigated as a discrete sample. PCOC with these materials include metals (arsenic, cadmium, chromium, copper, nickel, lead and zinc) and PAHs.

The Site does not include activities described in Appendix B of HEPA (2020) *Per-and poly-fluoroalkyl substances National Environmental Management Plan, Version 2.0* (PFAS NEMP). Accordingly no analysis for PFAS is proposed to be undertaken in the investigation.

# 4. PRELIMINARY CONCEPTUAL SITE MODEL

Historical termiticides applied to Site and asbestos containing materials (ACM) (most likely from buildings on the Site) are considered to be the **primary sources** of contamination on the Site.

Contamination present in soil and other environmental media as a result of the primary source is considered as a **secondary source** of **contamination**.

Once in soil, contamination has the potential to be distributed through **transportation pathways** such as erosion and deposition (wind and water) and the leaching of contaminants to groundwater and surface water, and anthropogenic activities which involve the movement of soil materials such as site redevelopment. Transportation pathways can also be considered as secondary sources of contamination (e.g. contamination in groundwater).

**Receptors** could potentially be exposed to contaminants derived from the disturbance of contaminants present in within soil.

Potential receptors considered applicable redevelopment of the Site include:

- workers involved with the site redevelopment work
- persons involved with the cleaning clothing, vehicles and equipment used in redevelopment
- general public including persons who could be subject to contaminated media generated during redevelopment (e.g. dust)
- ecological receptors including native and domestic terrestrial flora and fauna
- groundwater and surface water receptors.

Post redevelopment potential receptors which may be exposed to contaminants in soil include:

- general public accessing the park and community facilities
- persons involved with maintenance of the park and community facilities
- persons who work at the community facilities
- persons who could be subject to contaminated media generated from the Site (e.g. dust)
- ecological receptors including terrestrial and aquatic flora and fauna (including native and domestic terrestrial fauna).
- groundwater and surface water receptors.

# 5. DATA QUALITY OBJECTIVES

The National Environment Protection Measure (NEPM, Schedule B2 Guideline on Site Characterisation - 2013) states that the nature and quality of the data collected for a particular assessment will be determined by the Data Quality Objectives (DQOs). The NEPM and the Australian Standard AS4482.1-2005 reference the US EPA *Guidance on Systematic Planning Using the Data Quality Objectives Process* (US EPA, 2006) which defines the DQO process. The US EPA defines the process as *'a strategic planning approach based on the Scientific Methods that is used to prepare for a data collection activity. It provides a systematic procedure for defining the criteria that a data collection design should satisfy, including when to collect samples, where to collect samples, the tolerable level of decision errors for the study, and how many samples to collect.'*

The process for establishing DQOs appropriate for a project is defined by the US EPA and comprises seven steps. The DQOs have been briefly summarised in **Table 5-1**.

**Table 5-1 Data Quality Objectives**

| Data Quality Objectives |
|---|
| **1. State the Problem**<br>DVA is planning to redevelop the Site for park/community use. DVA has advised that it has had preliminary discussions with BCC which support the end use of the Site as a Park, and has advised that remediation of the Site to a standard suitable for Park is an appropriate remediation strategy for the Site. Previous investigations have identified OCPs and asbestos which exceed guidelines for recreational use. Review of previous investigation have identified 'Data Gaps' (refer to **Section 3.1**) which need to be addressed to confirm the remediation strategy for the Site.<br>The investigation planning team comprised Tetra Tech Coffey with input from the Site Auditor and DVA. |
| **2. Identify the Goal of the Study**<br>The purpose of the investigation is to investigate the Data Gaps described in **Section 3.1**, and to develop a remediation strategy for the Site. |
| **3. Identify Information Inputs**<br>• Previous investigations (where applicable)<br>• Field observations including the presence of visual/olfactory indicators of contamination<br>• Analytical data of sample media, and quality assurance / quality control (QA/QC) samples<br>• Outcome of QA/QC samples<br>• Nominated investigation levels (refer to **Section 7**). |
| **4. Define the Boundary of the Study**<br>The study boundary is defined as Lot 123-125 RP46047 ('the Site') (refer to **Figure 2**, **Appendix A**), the investigation of soil materials to approximately 0.5 m bgs within the Site, and to determine whether any groundwater receptors are present within 6 m bgs. The investigation of soil was completed over 1-day in September 2021 and the investigation of groundwater over 2-days in November 2021. |
| **5. Develop a Decision Rule**<br>Field and laboratory data collected from the investigation were compared against predetermined DQI defined in **Appendix G**. Where the data was found to meet these DQI, then the data was considered to be suitable quality to assess contamination in the context of the project objectives.<br>Where contamination is identified and exceeds the nominated investigation levels for the protection of human health and/or the environment a recommendation will be made for:<br>• completion of further investigations to assess the nature and extent of contamination requiring management (if required)<br>• remediation of the Site to enable the Site to be used for its intended use. |

**6. Specify Performance of Acceptance Criteria**

The assessment as a whole (including consideration of previous assessments) must reliably characterise the sources of contamination from the site and described the risk that the contamination may pose to human or ecological receptors. In order to achieve that, there must be multiple lines of evidence to support location of primary source areas; the characterisation of the nature and extent of secondary sources of contamination; the significance of the risk that that contamination currently poses to relevant receptors. Analytical data quality indicators are described in **Section 9**.

**7. Develop a plan for obtaining the data**

The methodology and rationale for obtaining relevant data for the detailed site investigation is described in the SAQP and summarised in **Section 6**.

# 6. METHODOLOGY

## 6.1 SOIL INVESTIGATION

The methodology for the soil investigation is described in the SAQP (Coffey, 2021). In summary the investigation involved the excavation of 21 hand augered boreholes over the Site 3 September 2021. Sample locations sites are shown in **Figure 2**, **Appendix A** and are summarised in the following table. Bore logs for the sampling sites are included in **Appendix B**.

Soils were logged in accordance with the Unified Soil Classification System (USCS), including environmental observations (staining, odour, and discolouration) to assist with evaluation of site contamination. A summary of ground conditions encountered is presented **Section 8.1**. On completion of ground investigation works, boreholes were backfilled with soil cuttings in order of excavation and the surface reinstated to match surrounds.

**Table 6-1 Summary of Sample Locations**

| Sample Location | Purpose of Sample Location |
|---|---|
| BH01 to BH08 | Concrete coring and soil sampling beneath the sealed area beneath Main Hall Building, and the concrete drive way along the eastern end of the Site. |
| BH09 to BH11 | Concrete coring between the accommodation building and main hall. |
| BH12 to BH13 | Two surface soil samples (0-0.1 m bgs) where elevated levels of zinc were reported in previous investigations |
| BH14 to BH15 | Two boreholes at previous sampling sites where elevated concentrations of OCPs were reported and there is currently no leachability data including HA10 and HA09. |
| BH16 to BH17 | Two boreholes at previous sampling sites where elevated concentrations of OCPs were reported and there is currently no leachability data including HA10 and HA09. |
| BH16 to BH20 | Four boreholes around the perimeter of the Site in grassy areas outside the building envelope. |
| BH21 | Concrete coring and soil sampling beneath the sealed area of the Accommodation Building |
| Slag 1 to 2 | Collection of two pieces of slag from garden bed (surface) on the southern side of the Main Hall. |

Soil samples were collected at 0-0.1 m, 0.3 m and 0.5 m below ground level (if practicable). Concrete cores and soil samples were be submitted for laboratory analysis. Samples collected were submitted for NATA accredited laboratory for analysis of the following:

- Soil samples: OCPs, metals (arsenic, cadmium, chromium, copper, lead, nickel and zinc), and asbestos.
- Concrete samples: OCPs
- slag samples: metals, PAH, OCPs

Ash and a slag type material was countered in the sampling sites BH06, BH17, BH18, and BH19. PAHs were scheduled at these sampling sites where these materials were encountered as well as the samples of slag (Slag 1 and Slag 2).

Based on the results of soil samples, selected samples were submitted for leachability analysis via the TCLP for waste classification purposes.

Organophosphate Pesticides (OPPs) were also analysed on selected samples.

## 6.2 GROUNDWATER INVESTIGATION

One groundwater monitoring well (MW01) was installed in the north western corner of the Site, near the previous sample location site SA04/A04. The location of the groundwater monitoring well installed is shown in **Figure 2**, **Appendix A**, and bore and well construction log included in **Appendix B**. Groundwater was not intersected during drilling and a dry well was installed. The location of this monitoring well was discussed with the Site Auditor. The location was selected on the basis that it is downgradient of areas where the highest concentrations of OCPs have been reported and is approximately the lowest point of elevation on the Site.

The monitoring well was constructed from 50mm Class 18 uPVC with machine slotted screening and casing. Threaded joins and end caps were used. The bore annulus was backfilled with washed, graded sand to approximately 0.5 m above the top of the 3 m screened well section and then sealed by an approximate 1 m thickness of bentonite. The remaining bore annulus was backfilled with cement grout to seal the bore annulus from surface water infiltration. A cap was installed on top of the well string to minimise the potential for infiltration of water and other foreign matter falling into the well. The monitoring well was finished with a flush gatic cover. Drill cuttings from the borehole were placed in the void beneath the accommodation building.

The monitoring well was checked on the 24 November 2021 with an interface probe. No groundwater was present in the monitoring well.

Soil samples during drilling were collected at 0-0.1 m, 0.25 m, 0.5 m, 1 m and then 1 m intervals to the based of the borehole. Samples collected at 0-0.1 m, 0.25 m and 0.5 m were submitted for laboratory analysis.

## 6.3 QUALITY ASSURANCE AND QUALITY CONTROL PROGRAM

For quality assurance / quality control (QA/QC) purposes, the methods used during soil sampling are summarised in **Table 6-2**. Field quality control samples will be analysed for OCPs and metals. A review of the QA/QC data against the DQIs adopted for the investigation is provided in **Appendix G**.

**Table 6-2 Field QAQC program**

| Activity | Detail / Comments |
|---|---|
| Collection of Samples | Samples collected were undertaken by experienced environmental practitioners with appropriate qualifications and training. These samples were collected in accordance with Coffey's Standard Operating Procedures which are based on good industry practice. |
| Intra-laboratory duplicates | Intra-laboratory field duplicates were collected at a minimum frequency of one sample per twenty samples collected (5%). The analytical results of the two duplicate samples were compared to assess the precision of the sampling protocol and to provide an indication of variation in the sample source.<br><br>Repeatability was assessed by calculating the relative percentage difference (RPD) between the primary and duplicate results. Where the RPD was greater than 30%, the potential causes of variability were reviewed. |
| Inter-laboratory duplicates | Inter-laboratory field duplicates were collected of surface water and sediment samples at a minimum frequency of one sample per twenty samples collected (5%). The analytical results of the two duplicate samples were compared to assess the precision of the sampling protocol, provide an indication of variation in the sample source and to assess the accuracy of analysis.<br><br>Reproducibility was assessed by calculating the relative percentage difference (RPD) between the primary and duplicate sample results. Where the RPD was greater than 30%, the potential causes of variability were reviewed. |
| Trip blanks | Laboratory provided trip blanks were used for each sampling event. The blank remained with the sample containers during sampling and during the return trip to the laboratory. At no time during these procedures was the blank opened. |

| | |
|---|---|
| Rinsate samples | Rinsate samples were prepared in the field using empty bottles and the distilled water/potable water used for the cleaning of non-disposable sampling equipment (if used). These samples were a check of field decontamination procedures. Rinsate samples were collected and analysed for each day of field work carried out, where non-disposable sampling equipment has been used. |
| Samples chain of custody (COC) | Sample details were recorded on laboratory supplied COC templates. All quality control samples were labelled without reference to the parent sample on the sample container and COC to ensure analytical results were not biased by the laboratories. COC documentation was completed at the time of sample collection and accompanied the samples to the laboratory. |
| Selected laboratories | All laboratories used were NATA accredited for the analyses undertaken. Primary groundwater samples, duplicate, field blank and rinsate samples were submitted to Eurofins for analysis. The split sample was submitted ALS Environmental for analysis. |
| Equipment calibration | All scientific equipment used during groundwater monitoring works was calibrated as per manufacturers requirements. Refer to **Appendix H** for copies of the equipment calibration certificates. |
| Laboratory QAQC | The accuracy and precision of laboratory QC results were measured by percentage recovery, relative percentage difference (RPD), method blank value, duplicate, laboratory control control, matrix spike, and surrogate recovery. Definitions and acceptance targets for these measures are detailed in the laboratory reports contained in **Appendix D**. |

Laboratory quality control included:

- analysis of samples environmental testing laboratory(s) who hold NATA accredited analytical methods
- the laboratory analyses will include reagent blanks, spike samples, duplicate spikes, matrix spikes, and surrogates spikes and duplicates to assess the laboratory quality control.

Based on the review of the field and laboratory QAQC data against the DQIs in **Appendix G**, Coffey considers the analytical data are suitable for the intended purpose.

# 7. INVESTIGATION LEVELS

Soil samples analysed were compared to established guidelines for the protection of human health and the environment. The guidelines adopted for this investigation are referred to as the nominated investigation levels (ILs).

Exceedance of an IL may trigger further consideration of risk through either qualitative risk assessment with consideration to source-pathway-receptors and/or further refinement of the IL. The ILs are summarised in the following sections.

## 7.1 PROTECTION OF HUMAN HEALTH

The nominated ILs have been selected to assess the suitability of the Site for its intended use for recreational purposes or removal of the Site from the EMR. Based on the PCOC identified in previous investigations the nominated ILs include:

Assessment of the Site for Recreational Use:

- NEPM health-based investigation levels in recreational land use (HIL-C)
- Other guideline as required based on the findings of the investigation.

Assessment of the Site for removal from EMR

- NEPM health-based investigation levels in residential landuse with accessible gardens/soil (HIL-A)
- Other guideline as required based on the findings of the investigation.

**Table 7-1** and **Table 7-2** summarise the adopted human health guidelines for soils.

**Table 7-1 Human Health ILs for Soil and Sediment**

| Analyte | Adopted IL |
|---|---|
| • Metals<br>• Organo-chlorine pesticides (OCs)<br>• Carcinogenic PAH (Benzo(a)pyrene TEQ)<br>• Total PAH | Assessment of the Site for Recreational Use:<br>• NEPM health-based investigation levels in recreational land use (HIL-C)<br>• Other guideline as required based on the findings of the investigation.<br>Assessment of the Site for removal from EMR<br>• NEPM health-based investigation levels in residential landuse with accessible gardens/soil (HIL-A)<br>• Other guideline as required based on the findings of the investigation. |
| • Total Recoverable Hydrocarbons (TRH)<br>• Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) Compounds<br>• Naphthalene (N) | The most conservative of the following guidelines has been selected (refer to Table 7-2):<br>• NEPM HSL Vapour intrusion (Residential) <1 m SAND or Recreational/Open Space <1m SAND<br>• NEPM Management Limits (Residential, Parkland and Open Space).<br>• CRC Care Soil Health Screening Levels for Direct Contact Residential HSL-A Low Density. |

**Table 7-2 Summary of Adopted Human Health ILs for TRH**

| TRH Fraction | HSL-A | Management Limits[8] | Direct Contact | Adopted IL |
|---|---|---|---|---|
| TRH C6-C10 minus BTEX | 45 | 700 | 4400[9] | 45 |
| TRH >C10-C16 | 110 | 1000 | 3300 | 110 |
| TRH >C16-C34 | N/A | 2500 | 4500 | 2500 |
| TRH >C34-C40 | N/A | 10000 | 6300 | 6300 |

### Asbestos

For asbestos in soil, a screening level of 0.1 g/kg (0.01 % w/w equivalent) was adopted based on the laboratory detection limit for analysis of asbestos in non-homogenous samples using the methodology outlined in Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples (AS4964-2004). Furthermore, an assessment criterion of 'no respirable fibres' was adopted; a detection of respirable fibres would indicate an exceedance of the assessment criteria.

## 7.2 PROTECTION OF ECOLOGICAL RECEPTORS

For the purpose of this assessment the following Ecological ILs (EILs) have been adopted based on the NEPM Ecological Investigation Levels (EIL) for in Urban Residential/Public Open Space land use settings.

The EILs were derived with consideration to the following physico-chemical soil properties from two soil samples reported in Coffey (2013) including HA11 (replication of sample SS02) and HA07, and soil samples from MW01 which was completed in this investigation. Soil material reported from these locations were comprised of Clayey Sandy SILT (HA07), sandy silty CLAY (HA11), and generally consistent with the description of fill and natural materials observed on the Site (refer to **Section 6.1**).

The physico-chemical properties of the samples previously investigated included:

- CEC: 17 meq/100g (MW01-0.25), 25 meq/100g (HA07), 30 meq/100g (HA11), 33 meq/100g (MW01-0.75)
- pH: 5.5 (MW01-0.25), 5.8 (HA07), 6.3 (HA11) and 6.6 (MW01-0.75).

EILs derived based on the ASC NEPM are summarised in the following **Table 7-3.**

**Table 7-3 Adopted EILs**

| Potential Contaminant | Adopted EIL | Assumption |
|---|---|---|
| Zinc | 420 | Based on the sum of the Aged Contamination Limits (ACL) and Ambient Background Concentration (ABC) where:<br>• ACL = 400 mg/kg (urban residential/public open space land use and an assumed CEC of 20 meq/100g and pH of 6<br>• ABC = 20 mg/kg (Note 1) |

[8] The NEPM defines the management limits as *Petroleum hydrocarbon 'management limits' are limited to petroleum hydrocarbon compounds. They are maximum values that should remain in a site following evaluation of human health and ecological risks and risks to groundwater resources and apply to all soil depths based on site-specific considerations. These limits are to consider the formation of light non aqueous phase liquids, fire and explosion risks and damage to buried infrastructure.*

[9] Note the direct contract guideline is for TRH C6-C10 (inclusive of BTEX)

| Potential Contaminant | Adopted EIL | Assumption |
|---|---|---|
| Copper | 196 | Based on the sum of the Aged Contamination Limits (ACL) and Ambient Background Concentration (ABC) where:<br>• ACL = 190 mg/kg (urban residential/public open space land use and an assumed pH of 6<br>• ABC = 6 mg/kg (Note 1) |
| Chromium III | 245 | Based on the sum of the ACL and ABC where:<br>• ACL = 190 mg/kg (urban residential/public open space land use and 1% clay content was assumed<br>• ABC = 55 mg/kg (Note 1) |
| Nickel | 287 | Based on the sum of the ACL and ABC where:<br>• ACL = 270 mg/kg (urban residential/public open space land use and an assumed CEC of 20 meq/100g<br>• ABC = 17 mg/kg (Note 1) |
| Lead | 1112 | Based on the sum of the ACL and ABC where:<br>• ACL = 1100 mg/kg (urban residential/public open space land use)<br>• ABC = 12 mg/kg (Note 1) |
| Arsenic | 100 | Based on the generic EIL for urban residential/public open space land use |
| DDT | 180 | |
| TRH C6-C10 | 180 | Based on the generic ESL for urban residential/public open space land use, and coarse soils |
| TRH >C10-C16 | 120 | |
| TRH >C16-C34 | 300 | |
| TRH >C34-C40 | 2800 | |

Note 1: BH01 to BH05 are located beneath the Main Building and were found to comprised natural materials (an no fill materials). The Ambient Background Concentration (ABC) was derived as the arithmetic mean of sample results from these sample locations.

There are no EILs for a range of OCPs reported on the site including Aldrin, Dieldrin, Endosulfan, Endrin and Heptachlor.

Ecological guidelines from the United States Environmental Protection Agency (USEPA) have been adopted where there is no Australian guideline. These are discussed further in **Section 9.3**.

# 8. RESULTS OF INVESTIGATION

## 8.1 GROUND CONDITIONS

Bore logs from the investigation are provided in **Appendix B**.

### Fill Materials

Sample locations and fill depths encountered in the investigation are shown **Figure 3**, **Appendix A**.

In open areas surface geology typically comprised sparse grass coverage with very thin (<10 mm) silty sand topsoil across the open areas of the investigation area (surrounding the Accommodation and Main Hall buildings) and concrete paved driveways in between and to the east of the Accommodation and Main Hall buildings and a concrete footpath to the south of the Main Hall.

The subsurface geology in open areas typically comprised reworked firm, dry, red brown, low plasticity silty clay FILL interspersed with bedding sands and gravels in the upper profile. Fill material containing ash and slag-type materials in soil were recovered from the east and west of the site. Examples of ash and slag-type materials encountered are shown in **Figure 6-1**. Intrusive locations where anthropogenic materials were encountered are shown in **Figure 3**, **Appendix A**.

Fill depths in the west ranged from 0.2m bgs (BH19) in the north western corner, 0.6m bgs (BH17) in the south western corner, 0.3m bgs (BH06) in the south eastern corner and 0.45m bgs (BH20) in the north western corner. In between the Accommodation and Main Hall buildings, the depth of fill material ranged from 0.15m bgs (BH21) to 0.38 (BH14).

Fill material was not encountered beneath the slab of the Main Hall Building.

### Natural Materials

Underlying the fill material was the apparent natural soils typically comprised firm, dry, red/brown, low plasticity silty clays transitioning to slightly moist medium plasticity orange/brown silty clays with occasional bands of sub rounded gravels.

Apparent refusal on weathered mudstone was encountered at 0.65m bgs during excavation of BH19 located in the north western portion of the site. Weathered mudstone was encountered from approximately 2.4 m bgs at MW1 in the north western corner of the Site.

### Visual and Olfactory Signs of Contamination

With the exception of the observed ash and slag in fill materials, no visual or olfactory evidence of contamination (i.e. ACM, staining, or odours) was noted during the investigation.

### Groundwater

Groundwater was not intersected during the drilling of MW01 which was extended to 6 m bgs. No groundwater was encountered in the monitoring well when it was gauged on the 24 November 2021. This was approximately one week after installation of the monitoring well.

### Concrete Slab

Concrete slabs were found to be approximately 100 mm in thickness including slab beneath the Main Hall Building and Accommodation Building, and the concrete materials between these building and along the driveway on the eastern side of the Site.

**Figure 8-1 Examples of Ash/Slag Type Material**

BH18 (3/9/21 Facing South West)

BH19 (3/9/21 Looking Down)

Slag 2 (3/9/21 Facing north and from garden bed along the southern side of Main Hall Building)

Fill material at ground surface near BH18 (8/12/21 looking down. Photograph taken after rain)

## 8.2 LABORATORY RESULTS

Tabulated laboratory results (including previous investigations) in comparison to the ILs are provided in **Appendix C**.

Based on a review of the data, the data has been conceptualised into four categories of materials including:

- soil materials from surface to 0.2 m below ground level (bgs)
- soil materials deeper than 0.2 m bgs
- slag type material
- concrete.

The following sections provide a summary of the results of these materials and includes data from previous investigations.

### 8.2.1 Soil materials surface to 0.2 m bgs

Soil investigation results for OCPs and metals are summarised in the following table for samples collected from surface to 0.2 m bgs.

**Table 8-1 Summary of Soil Data Surface to 0.2 m bgs**

| Analyte (mg/kg unless shown) | No. Samples / Detects | Maximum Value | EIL - Res/Open Space | No. of Samples Exceeding EIL - Res/Open Space | HIL-A Residential | No. of Samples Exceeding HIL-A Residential | HIL-C Recreational | No. of Samples Exceeding HIL-C Recreational |
|---|---|---|---|---|---|---|---|---|
| **OCPs** | | | | | | | | |
| 4,4-DDE | 69 / 38 | 2.2 | | - | | - | | - |
| a-BHC | 57 / 0 | <0.1 | | - | | - | | - |
| Aldrin | 69 / 18 | 98 | | - | | - | | - |
| Aldrin + Dieldrin | 69 / 32 | 506 | | - | 6 | 18 | 10 | 15 |
| b-BHC | 69 / 0 | <0.1 | | - | | - | | - |
| chlordane | 69 / 30 | 140 | | - | 50 | 2 | 70 | 1 |
| d-BHC | 69 / 0 | <0.1 | | - | | - | | - |
| DDD | 69 / 23 | 2.1 | | - | | - | | - |
| DDT | 69 / 34 | 23 | 180 | Nil | | - | | - |
| DDT+DDE+DDD | 69 / 37 | 26.5 | | - | 240 | Nil | 400 | Nil |
| Dieldrin | 69 / 38 | 420 | | - | | - | | - |
| Endrin aldehyde | 69 / 4 | 0.24 | | - | | - | | - |
| Endrin ketone | 68 / 19 | 8.5 | | - | | - | | - |
| Endosulfan I | 69 / 2 | 0.26 | | - | 270 | Nil | 340 | Nil |
| Endosulfan II | 68 / 0 | <0.05 | | - | | - | | - |
| Endosulfan sulphate | 69 / 0 | <0.1 | | - | | - | | - |
| Endrin | 69 / 17 | 6.5 | | - | 10 | Nil | 20 | Nil |
| g-BHC (Lindane) | 69 / 0 | <0.1 | | - | | - | | - |
| Heptachlor | 69 / 10 | 1 | | - | 6 | Nil | 10 | Nil |
| Heptachlor epoxide | 69 / 19 | 3.4 | | - | | - | | - |
| Hexachlorobenzene | 69 / 0 | <0.1 | | - | 10 | Nil | 10 | Nil |
| Methoxychlor | 69 / 0 | <0.2 | | - | 300 | Nil | 400 | Nil |
| Toxaphene | 65 / 0 | <1 | | - | 20 | Nil | 30 | Nil |
| Total OCP | 69 / 56 | 527.38 | | - | | - | | - |
| **Metals** | | | | | | | | |
| Arsenic | 35 / 32 | 32 | 100 | Nil | 100 | Nil | 300 | Nil |
| Cadmium | 35 / 6 | 1.4 | | - | 20 | Nil | 90 | Nil |
| Chromium (III+VI) | 35 / 35 | 100 | 245 | Nil | 100 | 1 | 300 | Nil |
| Copper | 35 / 32 | 33 | 196 | Nil | 6000 | Nil | 17000 | Nil |
| Lead | 35 / 32 | 160 | 1112 | Nil | 300 | Nil | 600 | Nil |
| Mercury | 35 / 1 | 0.1 | | - | 10 | Nil | 13 | Nil |
| Nickel | 35 / 32 | 66 | 287 | Nil | 400 | Nil | 1200 | Nil |
| Zinc | 35 / 35 | 2000 | 420 | 3 | 7400 | Nil | 30000 | Nil |

#### OCPs

In summary elevated concentrations of the OCP aldrin and dieldrin have been found in soil samples which exceed NEPM HIL-A and HIL-C guidelines. The OCP chlordane also exceeded these investigation levels in one sample. Sampling sites with exceedences are shown in **Figure 3**, **Appendix A**.

A range of other OCPs were also detected although were below the HIL-A and HIL-C guidelines in the samples analysed including:

- DDT+DDE+DDD
- Endosulfan I
- Endrin
- Heptachlor.

Endrin aldehyde and endrin ketone were also detected in samples analysed and do not have guideline values in the NEPM. These compounds are breakdown products of endrin.

Heptachlor epoxide which is a breakdown product of heptachlor were also detected in samples analysed and does not have guideline values in the NEPM.

OCPs were not reported above the limit of reporting (LOR) in soil samples from the following areas:

- the concrete slab along the driveway along the eastern boundary of the Site (BH06 to BH08)
- the south eastern corner (BH16).
- the western boundary of the Site (BH17 to BH19).

### Metals

With the exception of zinc all samples of metals analysed were below the NEPM HIL-A and HIL-C guidelines, and the EILs. Elevated concentrations of zinc with concentrations which were below the NEPM HIL-A and HIL-C guidelines and exceeded the EILs were reported in SS01, SS02 and HA11. These locations were resampled as part of this investigation in BH12 and BH13. These sample sites returned zinc concentrations below the adopted EILs and HIL-A and HIL-C.

### Asbestos

Fragments of ACM have been observed in surface soils, and asbestos fines have previously been reported in sample locations SS01, SS02 and SA01.

Fragments of ACM were not observed in the investigation completed in 2021. All samples analysed for asbestos in 2021 reported no asbestos detected at the LOR of 0.01% w/w.

### Other Potential Contaminants of Concern (PCOC)

With the exception of previous sample location site SS04 located in the north eastern corner of the Site, other PCOC included OPs, TRH/BTEXN and PAH have not been reported in soil samples with concentrations above the LOR.

Sample location SS04 in Coffey (2013) reported TRH in the C16-C34 fraction with concentration which was below the adopted HIL-A, HIL-C and EILs. No visual or olfactory signs of contamination were observed at this sampling location (and elsewhere on the site) however organic matter was present. The TRH previously reported is potentially a false positive, relating to organic matter within the shallow soil profile for the following reasons:

- no visual or olfactory signs of hydrocarbon contamination were observed at this sampling location
- the site history has not identified storage/use of hydrocarbons
- other potential organic contaminants (BTEX and PAH) where not reported in the sample analysed (or other samples analysed)
- the sample was collected from a depth and location where organic matter would be present.

Further investigation of SS04 is not considered necessary based on the low concentration of TRH reported, and no other visual/olfactory signs of hydrocarbons in all sampling locations and the site history which has not identified the storage/use of hydrocarbon on the site.

### 8.2.2 Soil materials deeper than 0.2 m bgs

Soil investigation results for OCPs and metals from samples collected deeper than 0.2 bgs are summarised in the following table.

**Table 8-2 Summary of Soil Data deeper than 0.2 m bgs**

| Analyte (mg/kg unless shown) | No. Samples / Detects | Maximum Value | EIL - Res/Open Space | No. of Samples Exceeding EIL - Res/Open Space | HIL-A Residential | No. of Samples Exceeding HIL-A Residential | HIL-C Recreational | No. of Samples Exceeding HIL-C Recreational |
|---|---|---|---|---|---|---|---|---|
| **OCPs** | | | | | | | | |
| 4,4-DDE | 47 / 3 | 0.22 | | - | | - | | - |
| a-BHC | 47 / 0 | <0.05 | | - | | - | | - |
| Aldrin | 47 / 5 | 0.98 | | - | | - | | - |
| Aldrin + Dieldrin | 47 / 11 | 14 | | - | 6 | 2 | 10 | 1 |
| b-BHC | 47 / 0 | <0.05 | | - | | - | | - |
| chlordane | 47 / 6 | 0.5 | | - | 50 | Nil | 70 | Nil |
| d-BHC | 47 / 0 | <0.05 | | - | | - | | - |
| DDD | 47 / 1 | 0.15 | | - | | - | | - |
| DDT | 47 / 0 | <0.2 | 180 | Nil | | - | | - |
| DDT+DDE+DDD | 47 / 3 | 0.37 | | - | 240 | Nil | 400 | Nil |
| Dieldrin | 47 / 10 | 14 | | - | | - | | - |
| Endrin aldehyde | 47 / 0 | <0.05 | | - | | - | | - |
| Endrin ketone | 47 / 1 | 0.05 | | - | | - | | - |
| Endosulfan I | 47 / 0 | <0.05 | | - | 270 | Nil | 340 | Nil |
| Endosulfan II | 47 / 0 | <0.05 | | - | | - | | - |
| Endosulfan sulphate | 47 / 0 | <0.05 | | - | | - | | - |
| Endrin | 47 / 2 | 0.1 | | - | 10 | Nil | 20 | Nil |
| g-BHC (Lindane) | 47 / 0 | <0.05 | | - | | - | | - |
| Heptachlor | 47 / 0 | <0.05 | | - | 6 | Nil | 10 | Nil |
| Heptachlor epoxide | 47 / 2 | 0.26 | | - | | - | | - |
| Hexachlorobenzene | 47 / 0 | <0.05 | | - | 10 | Nil | 10 | Nil |
| Methoxychlor | 47 / 0 | <0.2 | | - | 300 | Nil | 400 | Nil |
| Toxaphene | 44 / 0 | <1 | | - | 20 | Nil | 30 | Nil |
| Total OCP | 47 / 17 | 14.52 | | - | | - | | - |
| **Metals** | | | | | | | | |
| Arsenic | 26 / 22 | 23 | 100 | Nil | 100 | Nil | 300 | Nil |
| Cadmium | 26 / 0 | <1 | | - | 20 | Nil | 90 | Nil |
| Chromium (III+VI) | 26 / 23 | 180 | 245 | Nil | 100 | 7 | 300 | Nil |
| Copper | 26 / 26 | 74 | 196 | Nil | 6000 | Nil | 17000 | Nil |
| Lead | 26 / 21 | 120 | 1112 | Nil | 300 | Nil | 600 | Nil |
| Mercury | 26 / 0 | <0.1 | | - | 10 | Nil | 13 | Nil |
| Nickel | 26 / 22 | 84 | 287 | Nil | 400 | Nil | 1200 | Nil |
| Zinc | 26 / 26 | 160 | 420 | Nil | 7400 | Nil | 30000 | Nil |

#### OCPs

In summary lower concentrations of OCP pesticides were detected in soils deeper than 0.2 m bgs on the Site. This finding is consistent with the application of termiticides to surface soil. Aldrin+Endrin exceeded HIL-A residential guidelines in two samples (10-0.45 and 11-0.45) and HIL-C recreational guidelines in 11-0.45. Sample location 10 is located on the southern side of the Accommodation Building and sample location 11 located on the eastern side of this building. These results are discussed further in **Section 9.1**.

### Metals

With the exception of chromium, all samples from soil material deeper than 0.2 m bgs reported metals with concentrations which were below the NEPM HIL-A and HIL-C guidelines, and the EILs.

Chromium was below the NEPM-HIL C and EILs, and exceeded the NEPM HIL-A in the following samples: BH06_0.5, BH07_0.3, BH08_0.3, BH16_0.5, BH21_0.3, and BH21_0.5. All of these samples are from natural materials, and at these locations the concentration of chromium was found to increase with depth.

The NEPM HIL-A guideline is based on Chromium VI which is commonly used as a solvent within industrial processes. It is noted that the more toxic Chromium VI readily reduces to the less toxic Chromium III. As no source of chromium has been identified in fill materials and there is no previous industrial use of the Site, the source of chromium in these samples is considered to be natural and Chromium III. Analysis of Chromium (Total) and Chromium VI was undertaken from soil samples collected from MW01 at 0.25, 0.5, 0.75 and 1 m bgl. Concentrations of Chromium (Total) increased with depth however no positive detection of Chromium VI was reported. This finding supports the assumption that chromium reported in soil samples is Chromium III.

Chromium III is an essential nutrient and does not have a guideline value in the NEPM. The US EPA regional screening level (THQ 0.1)[10] for Chromium III is 12,000 mg/kg. All soil samples had concentrations of chromium below this guideline.

### Other PCOC

Other PCOC including PAH have not been reported in soil samples with concentrations above the LOR. OPPs in soil samples were not reported with concentrations above the LOR.

## 8.2.3 Slag and Ash Materials

Two samples of the slag type material (Slag 1 and Slag 2) obtained from the garden bed along the southern extent of the Main Hall Building (refer to **Figure 6-2**) were analysed and found to have PAHs not above the LOR. Low concentrations of lead and zinc were reported in the Slag 1 sample and all other metal analytes were not above the LOR from Slag 1 and Slag 2. All results were below the NEPM HIL-A, HIL-C and EILs.

In the 2021 investigation soil samples containing ash and/or slag type materials were intersected in BH06, BH17, BH18 and BH19. All samples of these materials reported PAHs not above the LOR and metals below the NEPM HIL-A, HIL-C and EILs. This finding is consistent with sample results from previous investigations where similar materials were investigated.

In summary where ash and/or slag type materials are encountered on the Site, contaminants of concern have not been reported.

**Figure 6-2 Slag Type Material in Garden Bed along Main Hall Building**

## 8.2.4 Concrete

Ten samples of concrete slab were submitted for analysis for OCPs for waste classification purposes. Low concentrations of OCPs were reported in the slab material at BH05 and BH21. The samples from concrete floor slabs are not considered to be representative of stumps

[10] https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables, accessed 2 December 2021

and footings. Further testing of stumps and footings will be required as part of the completion of demolition works.

### 8.2.5 Waste Disposal Criteria

A comparison of the soil results with Veolia Ti Tree Synthetically Lined Landfill Disposal Criteria is included in **Appendix C**.

All TCLP leachability results were below the Synthetically Lined Landfill Disposal Criteria. Further discussion on the potential waste classification of materials is provided in **Section 10.4.3**.

# 9. DISCUSSION OF RESULTS AND QUALITATIVE RISK ASSESSMENT

This section provides a qualitative risk assessment based on the findings of the supplementary investigation and previous investigations OCP pesticides have been reported in soil samples which exceed HIL-A and HIL-C guidelines. Soil samples where HIL-C and HIL-A guidelines have been exceeded are shown in **Figure 3**, **Appendix A**.

## 9.1 CONTAMINANT DISTRIBUTION

Soil material with OCPs which exceed HIL-C are predominately located in the upper soil deposits between the Accommodation Building and Main Hall Building, and in a small area south of the Main Hall Building and along the western perimeter of the Accommodation Building.

Soil material with OCPs which exceed HIL-A are more widely distributed and generally include upper soil materials north of the Main Hall Building and an area south of the Main Hall Building.

Elevated concentrations of OCPs (predominately Dieldrin) are mainly limited to soil materials from surface to 0.2 m depth with the exception of sampling site 11 and 10. Elevated concentrations were reported at 0.45 m depth which exceed HIL-C at site 11, and exceeded the HIL-A in sampling site 10 in the investigation completed in 2019 (Coffey, 2019). While these sampling sites potentially represent localised hotspots where contamination is found at a deeper depth from the application of termiticides, the elevated results at this depth may also be the result of cross-contamination where materials from the upper ground deposits contaminated materials from lower ground deposits during sampling. Further investigation to confirm whether cross-contamination occurred at these locations is not considered to be necessary.

Elevated concentrations of OCPs at depths greater than >0.2 m have not been observed in any of the other sample locations. This includes the following sample locations from the 2021 investigation:

- BH14 which is located next to the sampling point where the highest concentration of OCPs had previously been reported (HA10, Dieldrin+Aldrin 505 mg/kg). BH14 reported a concentrations of Dieldrin+Aldrin of 9.15 mg/kg at 0.1 m and 0.91 mg/kg at 0.3 m.
- BH21 which was completed in 2021 and reported the highest Dieldrin+Aldrin concentration in this mobilisation of 103.2 mg/kg at 0.1 m, and 1.41 mg/kg at 0.3 m.

The occurrence of elevated concentrations of OCPs in shallow soil materials is consistent the application of termiticides into the shallow soil materials (~100 mm bgs) adjacent to the two structures on the Site and the chemical properties of aldrin and dieldrin which absorb to soils (particularly soils with high organic matter) and have low solubility (and therefore leachability). These properties also apply to the other OCPs reported including DDT and its breakdown products DDD and DDE, and endosulfan compounds and heptachlor compounds.

OCPs were not reported above the limit of reporting (LOR) in soil samples from the following areas:

- the concrete slab along the driveway along the eastern boundary of the Site (BH06 to BH08)
- the south eastern corner (BH16).
- the western boundary of the Site (BH17 to BH19).

## 9.2 RISK TO HUMAN HEALTH

Soil materials on the Site containing OCPs which exceed the NEPM HIL-C guidelines are considered to pose a potentially unacceptable risk to human health in the context of the proposed future use of the Site for a park/open space land use.

Fragments of ACM and asbestos fines which exceed the nominated ILs have been reported in previous investigations of the Site. Fragments of ACM were not observed in the 2021 investigation and were not reported in soil samples analysed in 2021. As a precautionary measure the upper soil deposits should be considered to contain ACM and there would also be the potential for fragments of ACM to be displaced into the upper soil deposits during demolition of the existing buildings.

Fill containing anthropogenic materials which pose physical hazards (sharp and angular) are considered to be unsuitable for use in a park/open space and should also be removed from the Site where there is a likelihood that future users of the Site may come into contact with these materials. Conceptually this is considered to be to approximately 0.5 m depth based on the assumption that the maximum depth community members would dig to would be 0.4 m if undertaking double digging for a garden bed.

## 9.3 RISK TO ECOLOGICAL ENVIRONMENT

With the exception of DDT, there are currently no EILs in the NEPM for the other OCP analytes reported.

The US EPA[11] has set the following ecological screening levels for dieldrin (0.0029 mg/kg), aldrin (0.03 mg/kg), chlordane (0.0029 mg/kg), heptachlor epoxide (0.00015 mg/kg) and endrin (0.00019 mg/kg).

Soils materials with elevated concentrations of OCPs are considered to pose a potentially unacceptable risk to ecological receptors. This includes invertebrates present in soil materials (mainly within the upper A Horizon (topsoil) where the majority of organic matter is present and soil conditions are moist[12]), and other vertebrates (mammals/birds) which could bioaccumulate OCPs through the consumption of organisms and/or direct contact with the soil.

A quantitative ecological risk assessment would be required to assess risk to ecological receptors from existing contamination on the Site and is outside the scope of this investigation.

The recommended requirement for the remediation of the Site to mitigate risks to potential ecological receptors is the removal of up to 0.5 m of soil and the replacement of this material with clean fill and clean topsoil. This strategy would remove the majority of OCP contamination from the Site, and remove the contaminant source which the majority of ecological receptors could be exposed to including invertebrates present in soil materials and vertebrates which may be present on the Site (i.e. birds and mammals). The clean fill would also act as a barrier which mitigates exposure to any underlying materials which may have residual contamination post remediation.

Based on the existing analytical data residual materials which could remain on the Site if 0.5 m of material were removed is summarised in **Table 9-1**. This data set includes soil results from 0.4 to 0.5 m bgs with the exception of the results for site 11 and 10 which were excluded for the reasons described in **Section 9.1**. The 95% upper confidence limit (UCL 95%) was calculated for aldrin, dieldrin, chlordane and heptachlor epoxide. Of these contaminants of concern the UCLs for aldrin, dieldrin, chlordane and heptachlor epoxide exceeded the ecological guideline. Any residual contamination remaining at depth however would not be considered to pose an unacceptable risk to ecological receptors for the reasons outlined in the preceding paragraph.

[11] USEPA Region 4 (2018), Region 4 Ecological Risk Assessment Supplementary Guidance, March 2018 update.
[12] Earthworms typically burrow at 20 cm depth and within moist (rather than dry) soil (Worm Wise II | VRO | Agriculture Victoria, accessed 3 December 2021). Some larger earthworm species burrow to deeper depths (40-60cm) (Worm Wise II | VRO | Agriculture Victoria, accessed 3 December 2021) .

**Table 9-1 Summary of Soil Data 0.4 to 0.5 m bgs**

| Analyte (mg/kg unless shown) | No. Samples / Detects | Maximum Value | UCL 95% (Note 2) | Ecological Guidelines |
|---|---|---|---|---|
| 4,4-DDE | 18 / 0 | <0.05 | | |
| a-BHC | 18 / 0 | <0.05 | - | - |
| Aldrin | 18 / 2 | 0.12 | 0.0612 | 0.03 (Note 1) |
| Aldrin + Dieldrin | 18 / 6 | 3.86 | 1.313 | - |
| b-BHC | 18 / 0 | <0.05 | - | - |
| chlordane | 18 / 2 | 0.5 | 0.186 | 0.0029 (Note 1) |
| d-BHC | 18 / 0 | <0.05 | - | - |
| DDD | 18 / 0 | <0.05 | - | - |
| DDT | 18 / 0 | <0.05 | - | 180 |
| DDT+DDE+DDD | 18 / 0 | <0.05 | - | - |
| Dieldrin | 18 / 5 | 3.8 | 1.293 | 0.0029 (Note 1) |
| Endrin aldehyde | 18 / 0 | <0.05 | - | - |
| Endrin ketone | 18 / 0 | <0.05 | - | - |
| Endosulfan I | 18 / 0 | <0.05 | - | - |
| Endosulfan II | 18 / 0 | <0.05 | - | - |
| Endosulfan sulphate | 18 / 0 | <0.05 | - | - |
| Endrin | 18 / 0 | <0.05 | - | - |
| g-BHC (Lindane) | 18 / 0 | <0.05 | - | - |
| Heptachlor | 18 / 0 | <0.05 | - | - |
| Heptachlor epoxide | 18 / 2 | 0.26 | 0.0921 | 0.00015 (Note 1) |
| Hexachlorobenzene | 18 / 0 | <0.05 | - | - |
| Methoxychlor | 18 / 0 | <0.05 | - | - |
| Toxaphene | 18 / 0 | <1 | - | - |

Notes:

1) USEPA Region 4 (2018), Region 4 Ecological Risk Assessment Supplementary Guidance, March 2018 update.

2) UCL 95% calculated using ProUCL v.5.1 from soil results from 0.4 m bgs to 0.5 m bgs, and excluding the data for sample site 11 and 10 (refer to Section 6.3.1)

## 9.4 RISK TO GROUNDWATER

The risk to groundwater on the Site is considered to be low and not of concern for the following reasons:

- OCP contaminants on the site strongly absorb to soils and have low solubility/leachability. The risk of these contaminants leaching to underlying groundwater is therefore considered to be low.
- No shallow water bearing zone has been identified within 6 m of the ground surface.

## 9.5 RISK TO SURFACE WATER

As noted in **Section 9.4** OCPs have low solubility/leachability and therefore low risk of leaching into surface water during rainfall events and being transported to surface water receptors.

The primary risk to surface water receptors from the OCPs on the Site is through erosion of soil materials. The Site has been observed to be in a stable condition with hardstand and ground cover vegetation present and no visual signs of erosion. Therefore, the Site in its current condition is considered to pose a low risk to surface water receptors.

During remediation there is potential for soil materials to erode during rainfall events and be transported to surface water receptors. Risk to surface water during remediation would be managed through routine controls implemented during remediation works including:

- scheduling remediation of contaminated areas in periods where rain has not been forecast.
- undertaking remediation works such that excavated soils can be take off-site directly to landfill facilities and minimising requirement for stockpiling on site.
- Implementing appropriate erosion and sediment control measures on site.

Post remediation the risk to surface water receptors is considered to be low based on the removal of the contaminant source from the Site, the reinstatement of the Site with clean fill, and stabilisation of soil materials with ground cover and/or sealed areas.

# 10. REMEDIATION STRATEGY

This section provides a summary of the proposed remediation strategy for the Site. Further information on the proposed remediation works will be included in the Remedial Action Plan (RAP) which will be prepared following acceptance of the remediation strategy by DVA and the Site Auditor.

The Commonwealth Department of Agriculture, Water and the Environment (DAWE). DAWE has determined the demolition and removal of the contaminated soil on the site as a controlled action under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) and requires further information before making a decision on whether the action can proceed, and any required conditions if approval is granted. In DAWE Request for Additional Information (RFAI), DAWE has made a recommendation to remove OCPs to the laboratory limits of detect (LOR). DAWE confirmed this requirement in a meeting on the 9 December 2021. This requirement has been incorporated into the remediation strategy.

It is understood that as part of the redevelopment of the Site the brick façade and brick gate shown in the following image and in **Figure 4**, **Appendix A** are to be retained on-site for heritage purposes.

Source: Hayball (2021) Brisbane Legacy Concept Design. Note red outlines show location of gates and the façade.

**Figure 10-1 Brick Façade and Brick Gate**

The retention of these structures may make it impracticable to remove contaminated materials which potentially underlie these structures and therefore remove the property from the EMR. This constraint was

discussed in the meeting with DAWE on the 9 December 2021 and it was agreed that contaminated materials surrounding these structures should be removed to the extent as practicable. However, DAWE was not expecting contaminated soil materials which underlie these structures to be removed.

The following remediation strategy has been developed for the Site based on DAWE requirement to remove OCP contaminated soil to the LOR and to make it suitable for park and community use. This includes the removal of soils which are unsuitable for park use based on the presence of physical hazards.

Soils removed from the site will need to be replaced with clean fill from a certified clean source (quarry).

While the remediation strategy is not intended to remove the property from the EMR, following completion of the proposed remediation works a decision will be made in conjunction with the Site Auditor on whether the Site can be removed from the EMR, or whether the property is to remain on the EMR with a Site Management Plan (SMP) or can remain on the EMR without a SMP.

## 10.1 REMEDIATION OBJECTIVE

The primary objective for the remediation of the Site is to make it suitable for park and community use, and to remove the OCP contaminated soil from the Site as practicable.

## 10.2 REMEDIATION CRITERIA

For OCPs the proposed remediation criteria are the standard LOR from the NATA accredited laboratory Eurofins or ALS. For Eurofins these range from 0.05 mg/kg to 0.1 mg/kg.

For all other potential contaminants, the proposed remediation criteria for the Site are the NEPM health-based investigation levels in recreational land use (HIL-C).

### Note on removal from the EMR

Following the successful implementation of the remediation works it is expected that the residual concentration of contaminants in soil will be below the NEPM health-based investigation levels for residential land use with accessible gardens/soil (HIL-A). While these are not the proposed remediation criteria for the site, compliance with the NEPM HIL-A guidelines will be required if the Site is to be removed from the EMR.

### Note on ecological receptors

Following implementation of the proposed remediation strategy it is considered that there would be no plausible exposure pathway for ecological receptors on the basis that the majority of the contaminant source would have been removed with the exception of soil materials beneath structures which are to be retained on the Site.

### Note on groundwater and surface water receptors

OCPs have low solubility/leachability and therefore low risk of leaching into surface water and groundwater is low and not of concern.

Post remediation the risk to surface water and groundwater receptors is considered to be low based on the removal of the contaminant source from the Site, the reinstatement of the Site with clean fill, and stabilisation of soil materials with ground cover and/or sealed areas. Accordingly no remediation criteria are considered to be required for the protection of groundwater and surface water receptors.

## 10.3 PROPOSED REMEDIATION WORKS

For remediation planning the Site has been segregated into six areas which are shown in **Figure 10-2**, and **Figure 4**, **Appendix A**.

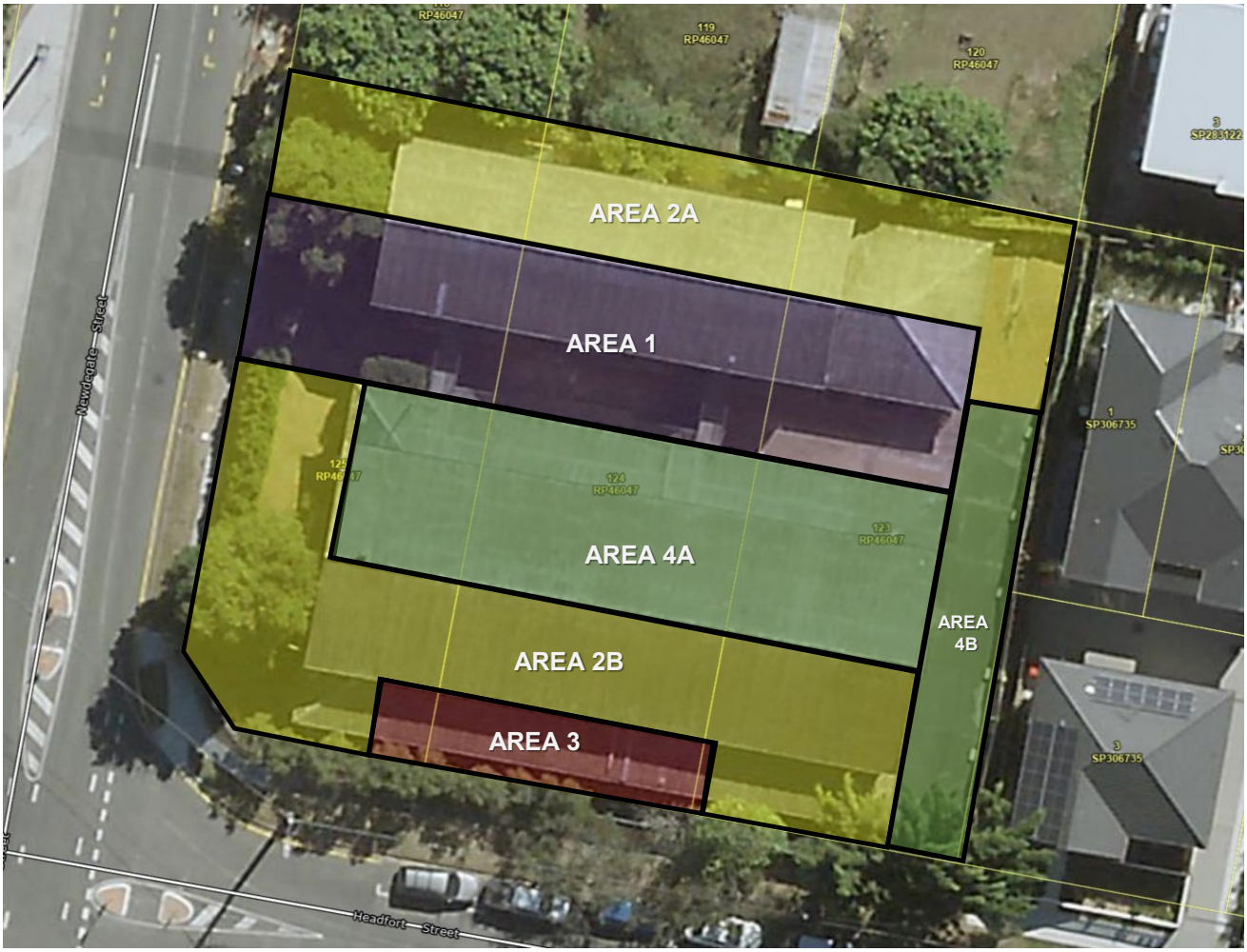



**Figure 10-2 Remediation Areas**

The concentration of OCPs and metals in these areas are summarised in the following tables.

**Table 10-1 Maximum Concentration of OCPs in Soil**

| Analyte (mg/kg) | Area 1 (Note 1) | | Area 2A | | Area 2B | | Area 3 | | Area 4A | | Area 4B | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ≤ 0.2 m | > 0.2 m | ≤ 0.2 m | > 0.2 m | ≤ 0.2 m | > 0.2 m | ≤ 0.2 m | > 0.2 m | ≤ 0.2 m | > 0.2 m | ≤ 0.2 m | > 0.2 m |
| 4,4-DDE | 0.34 | 0.07 | 0.49 | <0.05 | 2.2 | 0.39 | 0.57 | <0.05 | 0.39 | - | <0.05 | <0.05 |
| a-BHC | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.05 |
| Aldrin | 98 | 0.98 | 0.11 | <0.05 | 0.49 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.05 |
| Aldrin + Dieldrin | 506 | 3.86 | 1.81 | <0.05 | 20 | <0.05 | 0.08 | <0.05 | <0.05 | - | <0.05 | <0.05 |
| b-BHC | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.05 |
| chlordane | 20 | <0.1 | 8.2 | <0.1 | 42 | <0.1 | 140 | 0.5 | <0.1 | - | <0.1 | <0.1 |
| d-BHC | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.05 |
| DDD | 0.18 | <0.05 | 0.27 | <0.05 | 2.1 | 0.06 | 0.36 | <0.05 | 0.06 | - | <0.05 | <0.05 |
| DDT | 0.26 | <0.05 | 4.2 | <0.05 | 23 | 0.31 | 1.6 | <0.2 | 0.31 | - | <0.05 | <0.05 |
| DDT+DDE+DDD | 0.52 | 0.07 | 4.96 | <0.05 | 26.5 | 0.76 | 2.35 | <0.05 | 0.76 | - | <0.05 | <0.05 |
| Dieldrin | 420 | 3.8 | 1.7 | <0.05 | 20 | <0.05 | 0.08 | <0.05 | <0.05 | - | <0.05 | <0.05 |
| Endrin aldehyde | 0.13 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | 0.24 | <0.05 | <0.05 | - | <0.05 | <0.05 |
| Endrin ketone | 8.5 | <0.05 | 0.07 | <0.05 | 0.22 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.05 |

| Analyte (mg/kg) | Area 1 (Note 1) | | Area 2A | | Area 2B | | Area 3 | | Area 4A | | Area 4B | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ≤ 0.2 m | > 0.2 m | ≤ 0.2 m | > 0.2 m | ≤ 0.2 m | > 0.2 m | ≤ 0.2 m | > 0.2 m | ≤ 0.2 m | > 0.2 m | ≤ 0.2 m | > 0.2 m |
| Endosulfan I | 0.26 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | 0.05 | <0.05 | <0.05 | - | <0.05 | <0.05 |
| Endosulfan II | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.05 |
| Endosulfan sulphate | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.05 |
| Endrin | 6.5 | <0.05 | <0.05 | <0.05 | 0.18 | <0.05 | 0.12 | <0.05 | <0.05 | - | <0.05 | <0.05 |
| g-BHC (Lindane) | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.05 |
| Heptachlor | 0.87 | <0.05 | <0.05 | <0.05 | 0.2 | <0.05 | 1 | <0.05 | <0.05 | - | <0.05 | <0.05 |
| Heptachlor epoxide | 0.38 | <0.05 | 0.24 | <0.05 | 1 | <0.05 | 3.4 | 0.26 | <0.05 | - | <0.05 | <0.05 |
| Hexachlorobenzene | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 | <0.05 |
| Methoxychlor | <0.2 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 | <0.2 | <0.2 | <0.05 | - | <0.05 | <0.05 |
| Toxaphene | <1 | <1 | <1 | <0.5 | <1 | <0.5 | <1 | <1 | <0.5 | - | <0.5 | <0.5 |
| Total OCP | 527.38 | 3.86 | 9.54 | <0.1 | 43.94 | 0.76 | 143.06 | 0.76 | 0.76 | - | <0.1 | <0.1 |

Note 1: excludes results for Sample location 10-0.45 and 11-0.45.

**Table 10-2 Maximum Concentration of Metals in Soil**

| Analyte (mg/kg) | Area 1 (Note 1) | | Area 2A | | Area 2B | | Area 3 | | Area 4A | | Area 4B | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ≤ 0.2 m | > 0.2 m | ≤ 0.2 m | > 0.2 m | ≤ 0.2 m | > 0.2 m | ≤ 0.2 m | > 0.2 m | ≤ 0.2 m | > 0.2 m | ≤ 0.2 m | > 0.2 m |
| Arsenic | 19 | 12 | 22 | 3.4 | 32 | 12 | 20 | 2.6 | 12 | - | 19 | 12 |
| Cadmium | 1.4 | <0.4 | 0.6 | <0.4 | 0.9 | <0.4 | <0.4 | <0.4 | <0.4 | - | <0.4 | <0.4 |
| Chromium (III+VI) | 73 | 180 | 88 | 100 | 90 | 75 | 69 | <5 | 75 | - | 100 | 170 |
| Copper | 30 | 30 | 33 | 20 | 21 | 7.1 | 12 | 12 | 7.1 | - | 20 | 21 |
| Lead | 160 | 120 | 75 | 20 | 140 | 40 | 27 | 32 | 40 | - | 160 | 47 |
| Mercury | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| Nickel | 25 | 84 | 19 | 41 | 66 | 22 | 25 | 5.8 | 22 | - | 15 | 45 |
| Zinc | 2000 | 160 | 250 | 39 | 760 | 29 | 92 | 72 | 29 | - | 320 | 53 |

Note 1: excludes results for Sample location 10-0.45 and 11-0.45.

## Summary of Proposed Remediation Works

Remediation will take place following the completion of demolition works and the removal of the buildings from the Site. As part of the demolition works the concrete hardstand in Area 4A and 4B will be retained. The hardstand from these areas is to be removed once excavation has been completed in Area 1, Area 2A/2B and Area 3.

The proposed sequence of remediation works includes:

- Site establishment and set up of environmental controls required during remediation works
- Clearing of shrubs/trees around the Site
- Excavation of contaminated materials in accordance with the depth described in **Table 10-3**. The proposed sequence of remediation planning areas in order of excavation are:
  - Area 1
  - Area 2A
  - Area 2B and Area 3
  - Area 4A and Area 4B.
- Validation sampling[13] including a hold point to determine if further excavation is required to the achieve remediation objective.
- Reinstatement of excavated areas with clean fill sourced from a certified quarry, clean topsoil from a certified source, and establishment of an appropriate ground cover.
- Discussion with Site Auditor on whether the Site is to remain on the EMR or can be removed from the EMR.

[13] Note validation sampling will be undertaken progressively during site excavation work

- Preparation of a Contaminated Land Investigation Document (CLID) including a Site Suitability Statement and Draft SMP (if required) if the Site is to remain on the EMR, or Preparation of a Validation Report including a Site Suitability Statement if the property is to be removed from the EMR.
- Preparation of the Site Auditor Certification and submission of the documentation to the Department of Environmental and Science (DES).
- Providing copies of the documentation submitted to DES to DAWE.

Note as BCC will take ownership for the Site, DES will require BCC to consent to the SMP (and therefore any residual contamination present on the Site and its on-going management).

**Table 10-3 Proposed Excavation Depths**

| Area | Proposed Excavation Depths |
|---|---|
| Area 1 | **Requirement for Remediation**<br>OCPs in Area 1 exceed NEPM HIL-C guidelines for parks and open space areas and HIL-A guidelines for residential areas with accessible gardens. While the majority of OCP contamination is expected to be within the first 0.2 m bgs of soil, based on the existing data OCP contamination extends further into deeper soil deposits (~0.4 to 0.5 m bgs).<br>ACM is potentially present in shallow soil materials. Fill materials containing anthropogenic materials which pose physical hazards (sharp and angular) are unsuitable for use in a park/open space are also potentially present ("Unsuitable Fill Materials").<br><br>**Proposed Excavation Depths**<br>Excavate and remove 0.25 m depth of soil for disposal to lined landfill as contaminated soil potentially containing ACM.<br>Excavate a further 0.35 m depth of soil for disposal to lined landfill or re-use in an appropriately licenced resource recovering facility for commercial/industrial use. |
| Area 2A | **Requirement for Remediation**<br>OCPs in Area 2A exceed NEPM HIL-A guidelines for residential areas with accessible gardens. Based on the analytical data OCPs are expected to be limited to the upper soil deposits (within 0.2 m from ground surface).<br>ACM is potentially present in shallow soil materials. Unsuitable Fill Materials are also potentially present.<br><br>**Proposed Excavation Depths**<br>Excavate and remove 0.25 m depth of soil for disposal to lined landfill as contaminated soil potentially containing ACM.<br>Where Unsuitable Fill Materials are present excavate a further 0.25 m of soil for disposal to lined landfill or re-use in an appropriately licenced resource recovering facility for commercial/industrial use. |
| Area 2B | **Requirement for Remediation**<br>OCPs in Area 2B exceed NEPM HIL-A guidelines for residential areas with accessible gardens. While the majority of OCP contamination is expected to be within the first 0.2 m of soil, based on the existing data OCP contamination extends further into deeper soil deposits.<br>ACM is potentially present in shallow soil materials. Unsuitable Fill Materials are also potentially present.<br><br>**Proposed Excavation Depths**<br>Excavate and remove 0.25 m depth of soil for disposal to lined landfill as contaminated soil potentially containing ACM with the exception of soil materials beneath the brick fence gates and brick façade on the Main Building which are to be retained (excavate as close as practicable to these features).<br>Where Unsuitable Fill Materials are present excavate a further 0.25 m depth of soil for disposal to lined landfill or re-use in an appropriately licenced resource recovering facility for commercial/industrial use with the exception of soil materials beneath the brick fence gates and brick façade on the Main Building which are to be retained (excavate as close as practicable to these features). |

| Area | Proposed Excavation Depths |
|---|---|
| Area 3 | **Requirement for Remediation**<br>OCPs in Area 3 exceed NEPM HIL-C guidelines for parks and open space areas and HIL-A guidelines for residential areas with accessible gardens. While the majority of OCP contamination is expected to be within the first 0.2 m of soil, based on the existing data OCP contamination extends further into deeper soil deposits.<br>ACM is potentially present in shallow soil materials. Unsuitable Fill Materials are also potentially present.<br><br>**Proposed Excavation Depths**<br>Excavate and remove 0.25 m depth of soil for disposal to lined landfill as contaminated soil potentially containing ACM.<br>Excavate a further 0.35 m depth of soil for disposal to lined landfill or re-use in an appropriately licenced resource recovering facility for commercial/industrial use. |
| Area 4A | **Requirement for Remediation**<br>OCPs in Area 4A are below the NEPM HIL-A guidelines for residential areas with accessible gardens. Detectable OCPs concentrations were observed at the perimeter of Area 4A (at sampling locations BH01, BH03, BH12). These detectable OCP concentrations are below the NEPM HIL-A guidelines for residential areas with accessible gardens; however, they exceed the adopted remediation criteria of standard LOR (Section 10.2)<br>ACM is not expected to be present in shallow soil materials in this area based on the site geology being natural material (and no apparent fill) and the soil material being covered in hardstand.<br><br>**Proposed Excavation Depths**<br>Excavate and remove 0.25 m depth of soil and disposal of this material to lined landfill.<br><br>Where Unsuitable Fill Materials are present excavate a further 0.25 m of soil for disposal to lined landfill or re-use in an appropriately licenced resource recovering facility for commercial/industrial use. |
| Area 4B | **Requirement for Remediation**<br>OCPs in Area 4B were not detected in the samples analysed from this area. OCPs are potentially present in soil material around the perimeter of this area which adjoin Area 1 and Area 2B.<br>ACM is not expected to be present in shallow soil materials in this area based on available data and the soil material being covered in hardstand. Unsuitable Fill Materials are also potentially present.<br><br>**Proposed Excavation Depths**<br>Excavate and remove 0.25 m depth and 0.3 m width of soil around the perimeter of Area 4B which adjoin Area 1 and Area 2B and disposal to lined landfill as contaminated soil potentially containing ACM.<br>Where Unsuitable Fill Materials are present within Area 4B excavate up to 0.5 m of soil for disposal to lined landfill or re-use in an appropriately licenced resource recovering facility for commercial/industrial use. |

## 10.4 MANAGEMENT OF EXCAVATED MATERIAL

### 10.4.1 Preliminary Volume Estimate

A preliminary estimate of the in-situ volume of soil material to be excavated in each area is provided in the following table. Note the preliminary volume estimate is subject to change based on site conditions and validation sampling.

**Table 10-4 Preliminary In-situ Volume Estimate**

| Remediation Planning Area | Area ($m^2$) | Assumed Excavation Depth (m) | Assumed Excavation Vol. (rounded) ($m^3$) |
|---|---|---|---|
| Area 1 | 456 | 0.6 | 270 |
| Area 2A | 386 | 0.5 | 190 |
| Area 2B | 493 | 0.5 | 250 |
| Area 3 | 117 | 0.6 | 70 |
| Area 4A | 348 | 0.25 | 90 |
| Area 4B | 186 | 0.25 | 50 |

| | | | |
|---|---|---|---|
| Total | - | - | 920 |

Assuming a bulking factor of 1.3 the ex-situ volume of material would be approximately 1,200 $m^3$. Contingencies to this estimate will be considered in the Remediation Action Plan.

### 10.4.2 Queensland Waste Levy

For contaminated soil to be exempt from the Waste Levy the material needs to be:

- derived from a property on the EMR/CLR
- contaminated by a 'Hazardous Contaminant' as defined in the *Environmental Protection Act 1994* and the contamination occurred prior to the 1 January 1992[14]
- contaminated by contaminants which cannot be readily/practicably removed to render the material as clean earth.

OCPs present on the Site (aldrin, dieldrin, chlordane, and heptachlor) were withdrawn from use in Australia as termiticides in 1995 (Peters (2007[15]) and DPI NSW (2017[16])). DDT was banned in 1987[17].

On the basis that termiticides containing OCPs could have been used on the Site between 1992 and 1995 and there are no available site records which can verify when the chemicals were applied, excavated materials are not considered to be exempt from the Queensland Waste Levy based on the criteria regarding contamination occurring prior to the 1 January 1992.

Soil materials disposed to landfill facilities will therefore attract the waste levy for contaminated soil which is currently $85/tonne.

The exception to the above would be whether the State considers the project to be a 'significant community project'. Significant community projects are considered to be projects which have an aesthetic, conservation, cultural or economic benefit to a local or regional community or the State. These are considered to be projects which serve an essential need of the community or projects which improve community access to services. Coffey recommends that a waste levy exemption application be submitted on the basis that the redeveloped site could be considered a 'significant community project'.

### 10.4.3 Disposal or Reuse of Excavated Material

Based on OCP and the potential for ACM the first 0.25 m of soil material from Area 1, Area 2A, Area 2B, and Area 3 ("Type 1 Materials") will require disposal to an appropriately licenced landfill facility under a DES issued Disposal Permit.

Based on the analytical data and material properties soil materials excavated from the second 0.25 m to 0.35 m excavated from Area 1, Area 2A, Area 2B, and Area 3 or the first 0.25 m excavated from Area 4A and Area 4B ("Type 2 Materials") can be:

- disposed to an appropriately licenced landfill facility under a DES issued Disposal Permit, OR
- reused at an appropriately licenced resource recovery facility for future commercial/industrial use, and provided it does not contain ACM and demolition materials such as broken brick, concrete, timber etc. *Note where materials are reused the soil material is not subject to the Queensland Waste Levy.*

Coffey has provided the site investigation data to potential recipient facilities (Veolia, Remondis and BMI Group) and have been provided with the following from the BMI Group at the time of writing:

[14] Note for contamination to be considered pre-1992 information needs to be presented in the exemption application which justifies this assertion.
[15] Peters, B & Fitzgerald, C (2007) Developments in termite management in Queensland, Australia: Life after Cyclodienes (Isoptera). Sociobiology, 49(3), January 2007
[16] NSW Department of Primary Industries (2017), Management of organochlorine and related residues
[17] https://www.waterquality.gov.au/anz-guidelines/guideline-values/default/water-quality-toxicants/toxicants/ddt-2000

- BMI Group can accept Type 1 Materials at its Staplyton Landfill facility as Contaminated Soil on the assumption it receives all of the Type 1 Materials from Area 1, Area 2A, Area 2B and Area 3. Type 1 Materials will be received under a Disposal Permit and the rate for these materials is $120.60/tonne including the Queensland Waste Levy.
- BMI Group can accept Type 2 Materials for reuse at the Redbank Resource Recovery Facility at a rate of $7.50/m$^3$. Note this is measured as an ex-situ volume based on the volume of the truck and equates to approximately ~ $15/tonne assuming a bulking factor of 1.3 and a soil bulk density of 2.

## 10.5 CONTROLS DURING REMEDIATION

Controls to be implemented during remediation are to be documented in the Environmental Management Plan (EMP) by the Remediation Contractor. Controls to be implemented are expected to include but not limited to:

- Implementation of an erosion and sediment control plan prepared by a Certified Professional in Erosion and Sediment Control (CPESC)
- Water sampling during rainfall events where an off-site release of runoff occurs and analysing the water for OCPs
- Dust suppression and monitoring by visual observations
- Air monitoring for asbestos during excavation works (in addition to demolition)
- Air monitoring for OCPs in dust during excavation works.
- Implementation of on-site hygiene facilities and controls by the Remediation Contractor to protect the health of on-site workers during remediation
- Stockpile management: dedicated area, covers, cap on heights
- Noise: Use of modern equipment with silencers, engines switched off when not in used, and normal working hours.
- Competent person to guide asbestos identification/management
- Site induction includes discussion on the types of contamination present. Tool box talks to reinforce positive safe behaviours/management of unexpected finds.
- Unexpected finds protocol as part of the EMP.

Full-time supervision by a competent person is recommended to monitor compliance against the RAP and EMP, and to monitor the suitability of materials excavated for re-use at the resource recovery facility.

The Competent Person is to be experienced in the undertaking of remediation works and have the necessary training and experience to:

- identify soil materials containing ACM
- identify soil materials which contain anthropogenic materials which potentially pose physical hazards (sharp and angular) are unsuitable for use in a park/open space
- identify unforeseen contamination
- implement the RAP and EMP including but not limited to the required controls to manage potential risks to human health and the environment.

# 11. CONCLUSIONS

The Department of Veteran Affairs (DVA) is planning the redevelopment of land located at 114 Newdegate Street, Greenslopes (Lot 123-125 RP46047) ("the Site") for park/community use and pass the Land Title to Brisbane City Council (BCC). The Site currently contains two disused, large buildings with Asbestos Containing Materials (ACM).

The Site is listed on the Environmental Management Register (EMR) for Hazardous Contaminants as a result of organochlorine pesticides (OCPs) being previously detected in soil. The Site is not subject to a Site Management Plan (SMP) and the EMR listing does not include a Site Suitability Statement[18].

## Summary of Contamination

Soil material with OCPs which exceed human health-based guidelines for park/community use (NEPM HIL-C) are predominately located in the upper soil deposits between the Accommodation Building and Main Hall Building, and in a small area south of the Main Hall Building and along the western perimeter of the Accommodation Building.

Soil material with OCPs which exceed human-health based guidelines for residential use with accessible gardens (NEPM HIL-A[19]) are more widely distributed and generally include upper soil materials north of the Main Hall Building and an area south of the Main Hall Building.

Elevated concentrations of OCPs are generally limited to soil materials less than 0.2 m below ground surface (bgs). The occurrence of elevated concentrations of OCPs in shallow soil materials is consistent the application of termiticides into the shallow soil materials and the chemical properties of OCPs detected which readily absorb to soils (particularly soils with high organic matter) and have low solubility (and therefore low leachability).

OCPs were not reported above the limit of reporting (LOR) in soil samples from the following areas:

- the concrete slab along the driveway along the eastern boundary of the Site (BH06 to BH08)
- the south eastern corner (BH16).
- the western boundary of the Site (BH17 to BH19).

Fragments of Asbestos Containing Materials (ACM) and asbestos fines which exceed the nominated ILs have been reported in previous investigations of the Site. Fragments of ACM were not observed in the 2021 investigation and asbestos was not reported in soil samples analysed in 2021. As a precautionary measure the upper soil deposits should be considered to contain ACM and there would also be the potential for fragments of ACM to be displaced into the upper soil deposits during demolition of the existing buildings.

Fill materials have been found across the Site. The thickness of fill is deepest along the western boundary of the Site (approximately 0.6 m) and shallowest along the eastern boundary (approximately 0.1 m). Fill materials were not found beneath the concrete slab beneath Main Hall Building.

Fill materials containing ash and/or slag type material has been reported across the Site, and particularly along the western side of the Site. Contamination posing unacceptable health or ecological risks has not been found in association with this material.

[18] A Site Suitability Statement is a statement prepared by a Suitably Qualified Person (SQP) which describes the permitted uses of the land, and whether there is a requirement for a SMP. The Site Suitability Statement can also include a statement that the site is 'suitable for any use' (i.e. can be removed from the EMR).
[19] Compliance with NEPM HIL-A guidelines will be required if the Site is to be removed from the EMR.

Further testing of stumps and footings will be required as part of the completion of demolition works and is being discussed with the Remediation Contractor.

## Risk to Human Health and Ecological Receptors

Soil materials which in the upper ground deposits (~ <0.25 m bgs) are considered to pose an unacceptable risk to human health where OCPs are present which exceed the NEPM HIL-C and due to the potential for ACM. OCPs also pose a potential unacceptable risk to ecological receptors based on the adopted guidelines.

## Risk to Groundwater Receptors

A groundwater monitoring well was installed in the north western corner of the Site to 6 m bgs. Groundwater was not intersected and is likely to be at a depth greater than 30 m bgs. Risk to groundwater receptors is considered to be low based on no shallow water bearing zone being found on the Site and the low leachability of the OCPs present.

## Risk to Surface Receptors

Risk to surface water receptors is also considered to be low based on the low leachability of OCPs present and the Site being in a stable condition. There is a potential risk to surface water receptors during remediation from the erosion of soil materials during rainfall events. Risk to surface water receptors can be managed during site clearance and remediation activity through the implementation of routine construction site management controls.

## Remediation Strategy

The Commonwealth Department of Agriculture, Water and the Environment (DAWE) has determined the demolition and removal of the contaminated soil on the Site to be Controlled Action under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). DAWE has made a recommendation to remove OCPs to the laboratory limit of reporting (LOR) and confirmed this requirement in a meeting on the 9 December 2021.

The primary objective for the remediation of the Site is to make it suitable for park and community use, and to remove OCP contaminated soil to the LOR as practicable[20].

For all other potential contaminants the proposed remediation criteria for the Site are the NEPM health-based investigation levels in recreational land use (HIL-C).

The proposed remediation strategy will involve the excavation and removal of up to 0.6 m depth of soil material over the Site based on the presence of OCPs, ACM and/or the presence of fill materials which contain anthropogenic materials and physical hazards (e.g. sharp and angular) which are considered unsuitable for use in a park.

Materials removed from the Site will be disposed at a licenced landfill under a Disposal Permit, or re-used at a resource recovery facility for commercial/industrial use where appropriate.

Validation sampling will be undertaken to confirm that the remediation objectives have been met.

Excavated materials will be backfilled with clean fill sourced from a certified quarry, and a ground cover re-established on the Site post remediation.

[20] For OCPs the proposed remediation criteria are the standard LOR from the NATA accredited laboratory Eurofins or ALS. For Eurofins these range from 0.05 mg/kg to 0.1 mg/kg.

At the completion of a remediation a Contaminated Land Investigation Document (CLID) including a Site Suitability Statement and Draft SMP (if required) will be prepared and submitted to the Department of Environment and Science with the Site Auditor Certification.

The required controls to be implemented during remediation are expected to include but not limited to:

- Implementation of an erosion and sediment control plan prepared by a Certified Professional in Erosion and Sediment Control (CPESC)
- Water sampling during rainfall events where an off-site release of runoff occurs and analysing the water for OCPs
- Dust suppression and monitoring by visual observations
- Air monitoring for asbestos during excavation works (in addition to demolition)
- Air monitoring for OCPs in dust during excavation works.Implementation of on-site hygiene facilities and controls by the Remediation Contractor to protect the health of on-site workers during remediation
- Stockpile management: dedicated area, covers, cap on heights
- Noise: Use of modern equipment with silencers, engines switched off when not in used, and normal working hours.
- Competent person to guide asbestos identification/management
- Site induction includes discussion on the types of contamination present. Tool box talks to reinforce positive safe behaviours/management of unexpected finds.
- Unexpected finds protocol as part of the EMP.

Full-time supervision by a competent person is recommended to monitor compliance against the RAP and EMP, and to monitor the suitability of materials excavated for re-use at the resource recovery facility.

This report is to be read in conjunction with the limitations included in this report.

# 12. REFERENCES

Coffey, 2013a. Department of Veteran Affairs Phase 1 Contaminated Land Assessment, 114 Newdegate Street, Greenslopes Queensland

Coffey, 2013b. Department of Veteran Affairs Phase 2 Contaminated Land Assessment, 114 Newdegate Street, Greenslopes Queensland

Coffey, 2019. Department of Veteran Affairs Delineation of Organochlorine Soil Impacts, 114 Newdegate Street, Greenslopes Queensland

Coffey (2020) *114 Newdegate Street Greenslopes Remediation Planning, Sampling, Analysis and Quality Plan*, 19 July 2021

Department of Environment and Resource Management (2020), *Brisbane River Estuary - Environmental Values and Water Quality Objectives (2010) Basin No. 143 (part), including all creeks of the Brisbane River estuary, other than Oxley Creek*.

HEPA (2020) Per-and poly-fluoroalkyl substances National Environmental Management Plan, Version 2.0 (PFAS NEMP).

NSW Department of Primary Industries (2017)*, Management of organochlorine and related residues*

Peters, B & Fitzgerald, C *(2007) Developments in termite management in Queensland, Australia: Life after Cyclodienes (Isoptera). Sociobiology, 49(3), January 2007*

Queensland Government, (2010), *Environmental Protection (Water) Policy 2009 South-east Queensland Map Series, PLAN WQ1431).*

# LIMITATIONS

# IMPORTANT INFORMATION ABOUT YOUR TETRA TECH COFFEY ENVIRONMENTAL REPORT

## Introduction

This report has been prepared by Tetra Tech Coffey for you, as Tetra Tech Coffey's client, in accordance with our agreed purpose, scope, schedule and budget.

The report has been prepared using accepted procedures and practices of the consulting profession at the time it was prepared, and the opinions, recommendations and conclusions set out in the report are made in accordance with generally accepted principles and practices of that profession.

The report is based on information gained from environmental conditions (including assessment of some or all of soil, groundwater, vapour and surface water) and supplemented by reported data of the local area and professional experience. Assessment has been scoped with consideration to industry standards, regulations, guidelines and your specific requirements, including budget and timing. The characterisation of site conditions is an interpretation of information collected during assessment, in accordance with industry practice.

This interpretation is not a complete description of all material on or in the vicinity of the site, due to the inherent variation in spatial and temporal patterns of contaminant presence and impact in the natural environment. Tetra Tech Coffey may have also relied on data and other information provided by you and other qualified individuals in preparing this report. Tetra Tech Coffey has not verified the accuracy or completeness of such data or information except as otherwise stated in the report. For these reasons the report must be regarded as interpretative, in accordance with industry standards and practice, rather than being a definitive record.

## Your report has been written for a specific purpose

Your report has been developed for a specific purpose as agreed by us and applies only to the site or area investigated. Unless otherwise stated in the report, this report cannot be applied to an adjacent site or area, nor can it be used when the nature of the specific purpose changes from that which we agreed.

For each purpose, a tailored approach to the assessment of potential soil and groundwater contamination is required. In most cases, a key objective is to identify, and if possible quantify, risks that both recognised and potential contamination pose in the context of the agreed purpose. Such risks may be financial (for example, clean up costs or constraints on site use) and/or physical (for example, potential health risks to users of the site or the general public).

## Limitations of the Report

The work was conducted, and the report has been prepared, in response to an agreed purpose and scope, within time and budgetary constraints, and in reliance on certain data and information made available to Tetra Tech Coffey.

The analyses, evaluations, opinions and conclusions presented in this report are based on that purpose and scope, requirements, data or information, and they could change if such requirements or data are inaccurate or incomplete.

This report is valid as of the date of preparation. The condition of the site (including subsurface conditions) and extent or nature of contamination or other environmental hazards can change over time, as a result of either natural processes or human influence. Tetra Tech Coffey should be kept appraised of any such events and should be consulted for further investigations if any changes are noted, particularly during construction activities where excavations often reveal subsurface conditions.

In addition, advancements in professional practice regarding contaminated land and changes in applicable statues and/or guidelines may affect the validity of this report. Consequently, the currency of conclusions and recommendations in this report should be verified if you propose to use this report more than 6 months after its date of issue.

The report does not include the evaluation or assessment of potential geotechnical engineering constraints of the site.

## Interpretation of factual data

Environmental site assessments identify actual conditions only at those points where samples are taken and on the date collected. Data derived from indirect field measurements, and sometimes other reports on the site, are interpreted by geologists, engineers or scientists to provide an opinion about overall site conditions, their likely impact with respect to the report purpose and recommended actions.

Variations in soil and groundwater conditions may occur between test or sample locations and actual conditions may differ from those inferred to exist. No environmental assessment program, no matter how comprehensive, can reveal all subsurface details and anomalies. Similarly, no professional, no matter how well qualified, can reveal what is hidden by earth, rock or changed through time.

The actual interface between different materials may be far more gradual or abrupt than assumed based on the facts obtained. Nothing can be done to change the actual site conditions which exist, but steps can be taken to reduce the impact of unexpected conditions.

For this reason, parties involved with land acquisition, management and/or redevelopment should retain the services of a suitably qualified and experienced environmental consultant through the development and use of the site to identify variances, conduct additional tests if required, and recommend solutions to unexpected conditions or other unrecognised features encountered on site. Tetra Tech Coffey would be pleased to assist with any investigation or advice in such circumstances.

## Recommendations in this report

This report assumes, in accordance with industry practice, that the site conditions recognised through discrete sampling are representative of actual conditions throughout the investigation area. Recommendations are based on the resulting interpretation.

Should further data be obtained that differs from the data on which the report recommendations are based (such as through excavation or other additional assessment), then the recommendations would need to be reviewed and may need to be revised.

## Report for benefit of client

Unless otherwise agreed between us, the report has been prepared for your benefit and no other party. Other parties should not rely upon the report or the accuracy or completeness of any recommendation and should make their own enquiries and obtain independent advice in relation to such matters.

Tetra Tech Coffey assumes no responsibility and will not be liable to any other person or organisation for, or in relation to, any matter dealt with or conclusions expressed in the report, or for any loss or damage suffered by any other person or organisation arising from matters dealt with or conclusions expressed in the report.

To avoid misuse of the information presented in your report, we recommend that Tetra Tech Coffey be consulted before the report is provided to another party who may not be familiar with the background and the purpose of the report. In particular, an environmental disclosure report for a property vendor may not be suitable for satisfying the needs of that property's purchaser. This report should not be applied for any purpose other than that stated in the report.

## Interpretation by other professionals

Costly problems can occur when other professionals develop their plans based on misinterpretations of a report. To help avoid misinterpretations, a suitably qualified and experienced environmental consultant should be retained to explain the implications of the report to other professionals referring to the report and then review plans and specifications produced to see how other professionals have incorporated the report findings.

Given Tetra Tech Coffey prepared the report and has familiarity with the site, Tetra Tech Coffey is well placed to provide such assistance. If another party is engaged to interpret the recommendations of the report, there is a risk that the contents of the report may be misinterpreted and Tetra Tech Coffey disowns any responsibility for such misinterpretation.

## Data should not be separated from the report

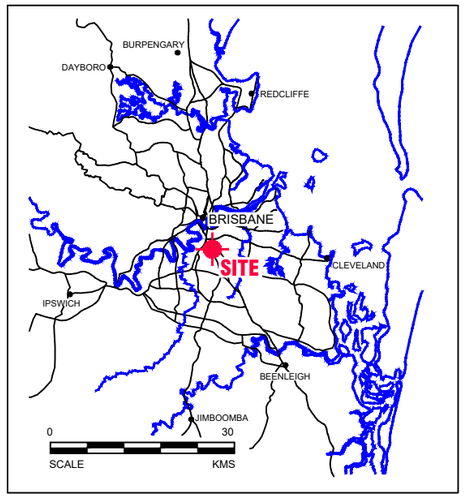
The report as a whole presents the findings of the site assessment and the report should not be copied in part or altered in any way. Logs, figures, laboratory data, drawings, etc. are customarily included in our reports and are developed by scientists or engineers based on their interpretation of field logs, field testing and laboratory evaluation of samples. This information should not under any circumstances be redrawn for inclusion in other documents or separated from the report in any way.

This report should be reproduced in full. No responsibility is accepted for use of any part of this report in any other context or for any other purpose or by third parties.

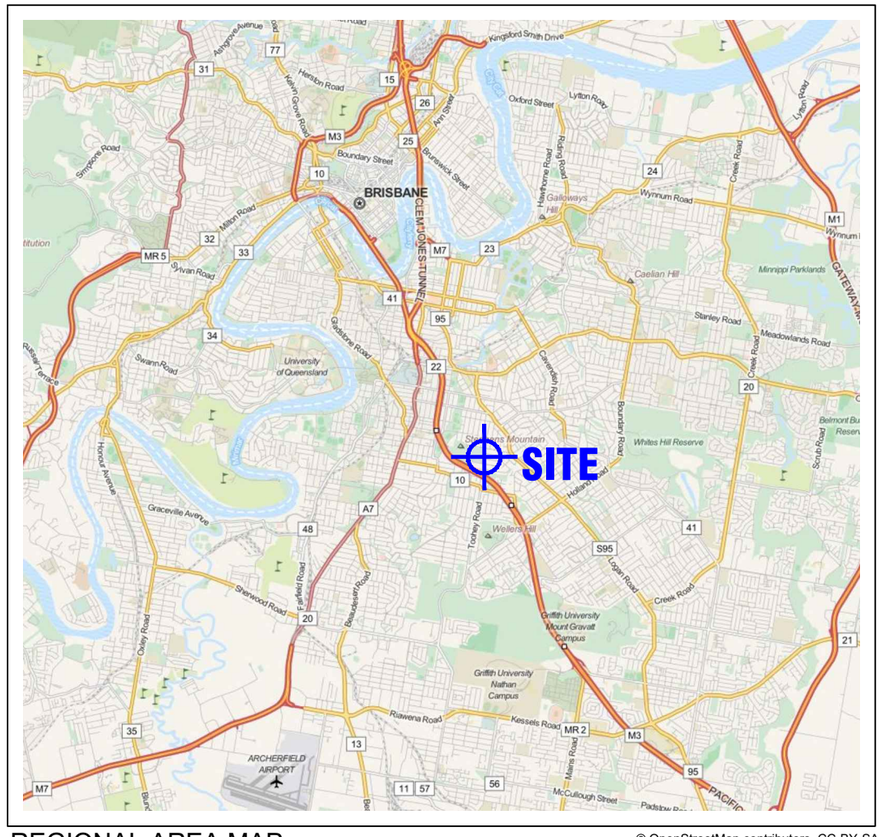
## Responsibility

Environmental reporting relies on interpretation of factual information using professional judgement and opinion and has a level of uncertainty attached to it, which is much less exact than other design disciplines. This has often resulted in claims being lodged against consultants, which are unfounded. As noted earlier, the recommendations and findings set out in this report should only be regarded as interpretive and should not be taken as accurate and complete information about all environmental media at all depths and locations across the site.

# APPENDIX A: FIGURES




GENERAL AREA MAP




REGIONAL AREA MAP

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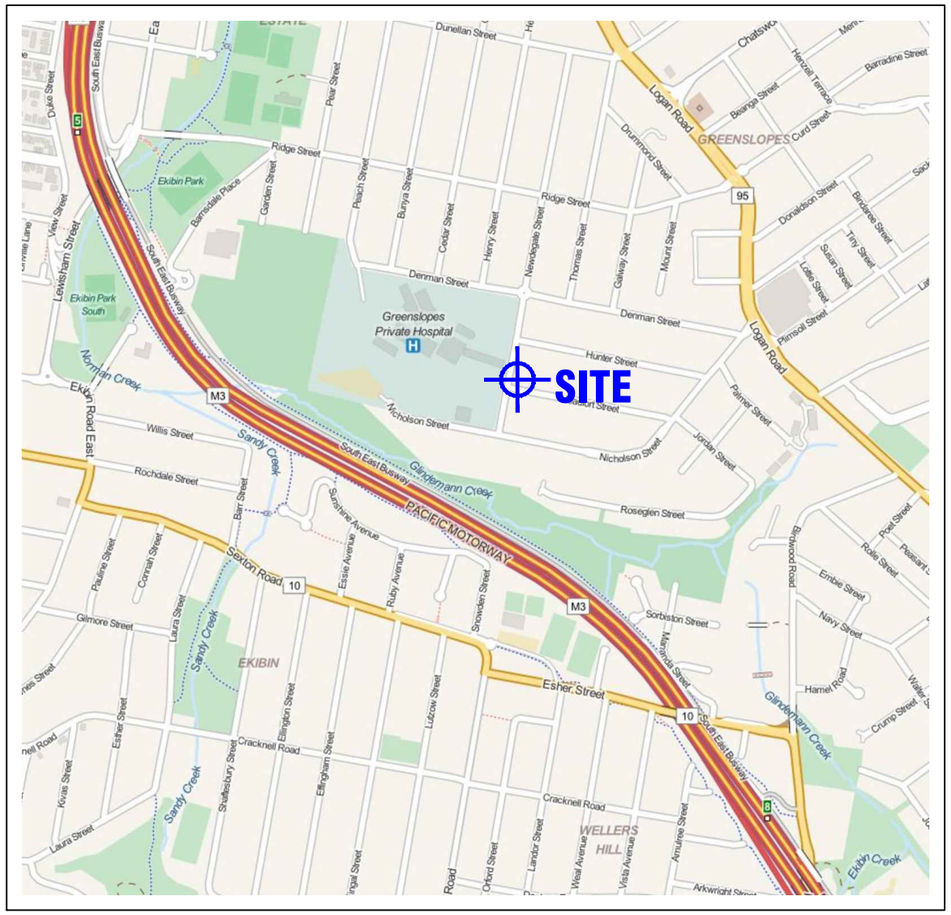
SCALE 1:150000 (A3) KILOMETRES




LOCAL AREA MAP

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SCALE 1:15000 (A3) METRES

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| date | 10-11-2021 |
| scale | AS SHOWN |
| original size | A3 |

TETRA TECH COFFEY

client: DEPARTMENT OF VETERAN AFFAIRS

project: DVA GREENSLOPES
114 NEWDEGATE STREET, GREENSLOPES, QLD

title: SITE LOCATION PLAN

project no: 754-BNEEN282781 | figure no: FIGURE 1 | rev: A

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

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Scale (metres) 1:300

SOURCE: NEARMAP IMAGE - 9/08/2019

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| drawn | SMW / AW |
| approved | - |
| date | 07-12-2021 |
| scale | AS SHOWN |
| original size | A3 |

TETRA TECH COFFEY

client: DEPARTMENT OF VETERAN AFFAIRS

project: DVA GREENSLOPES
114 NEWDEGATE STREET, GREENSLOPES, QLD

title: SAMPLE LOCATION PLAN

project no: 754-BNEEN282781 | figure no: FIGURE 2 | rev: A

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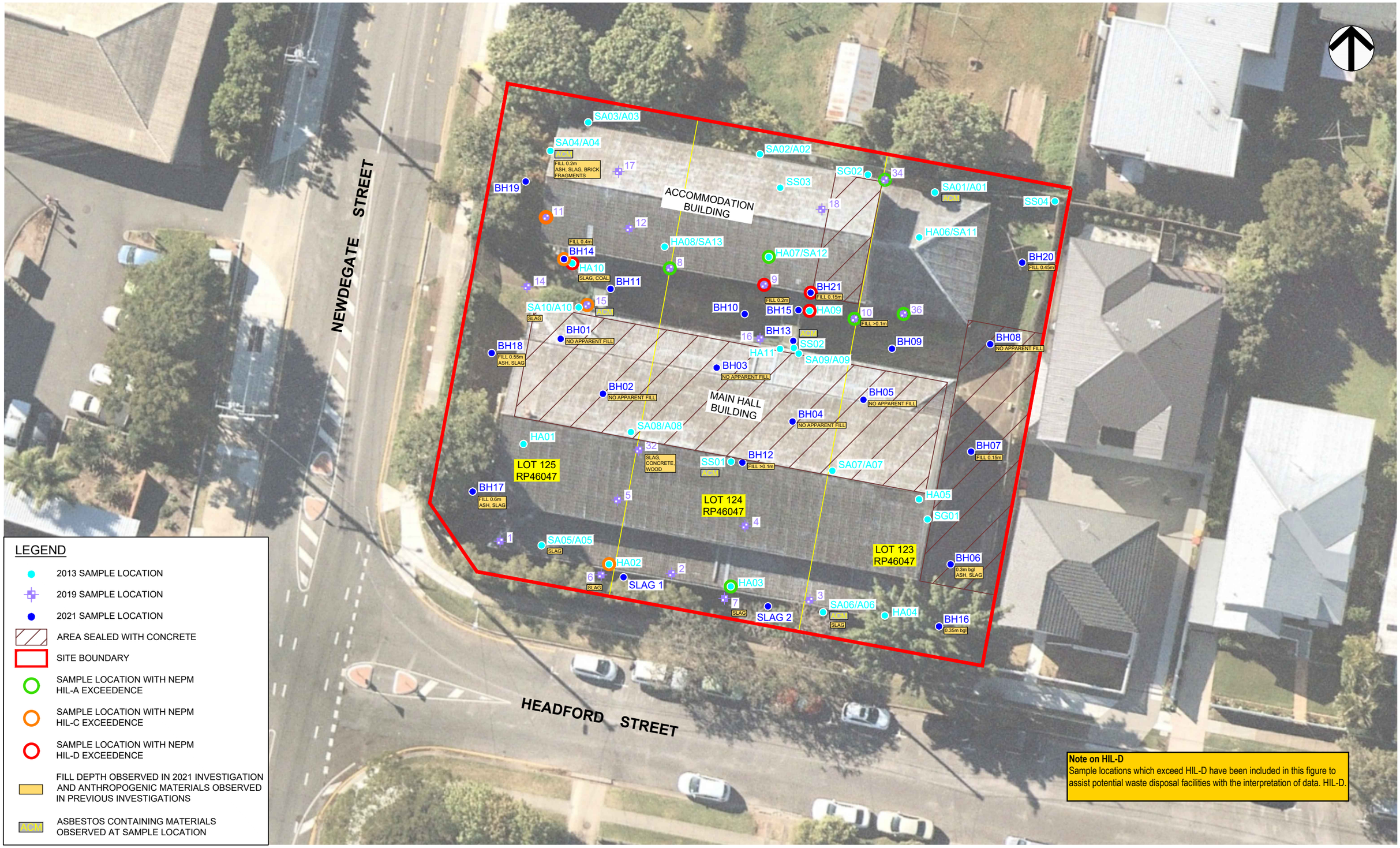


PLOT DATE: 10/11/2021 11:10:21 AM DWG FILE:F:\1. PROJECTS\1. SYDENEN\OTHER OFFICES\BNE-EN\754-BNEEN282781\CAD\754-BNEEN282781.DWG

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

5 0 5 10 15

Scale (metres) 1:300

SOURCE: NEARMAP IMAGE - 9/08/2019

| | |
|---|---|
| drawn | SMW / AW |
| approved | - |
| date | 10-11-2021 |
| scale | AS SHOWN |
| original size | A3 |

TETRA TECH COFFEY

client: DEPARTMENT OF VETERAN AFFAIRS

project: DVA GREENSLOPES
114 NEWDEGATE STREET, GREENSLOPES, QLD

title: SUMMARY OF HUMAN HEALTH EXCEEDANCES AND FILL DEPTH

project no: 754-BNEEN282781 | figure no: FIGURE 3 | rev: A

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

5 0 5 10 15

Scale (metres) 1:300

SOURCE: NEARMAP IMAGE - 9/08/2019

| | |
|---|---|
| drawn | SMW / AW |
| approved | - |
| date | 07-12-2021 |
| scale | AS SHOWN |
| original size | A3 |

TETRA TECH COFFEY

client: DEPARTMENT OF VETERAN AFFAIRS

project: DVA GREENSLOPES
114 NEWDEGATE STREET, GREENSLOPES, QLD

title: REMEDIATION PLAN

project no: 754-BNEEN282781 | figure no: FIGURE 4 | rev: A

PLOT DATE: 7/12/2021 2:30:16 PM DWG FILE: \\TTS779FS1.TT.LOCAL\DATA\1. PROJECTS\1. SYDENEN\OTHER OFFICES\BNE-EN\754-BNEEN282781\CAD\754-BNEEN282781.DWG

# APPENDIX B: BORELOGS

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# Environmental Log - Borehole

| | | | |
|---|---|---|---|
| | | Hole ID. | ***01*** |
| | | sheet: | 1 of 1 |
| | | project no. | ***754-BNEEN282781*** |
| client: | ***Department of Veteran Affairs*** | date started: | ***03 Sep 2021*** |
| principal: | ***Jeremy Wicks*** | date completed: | ***03 Sep 2021*** |
| project: | ***DVA Greennslopes Remediation*** | logged by: | ***MP*** |
| location: | ***114 Newdegate Street, Greenslopes QLD 4120*** | checked by: | ***JW*** |

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

equipment type: | drilling fluid: | hole diameter :

| drilling information | | | | | | material substance | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| method & support | water | samples & field tests | photoionization detector (ppmv) | RL (m) | depth (m) | graphic log | soil group symbol | material description<br>**SOIL NAME**: plasticity or particle characteristic, colour, secondary and minor components | moisture condition | consistency / relative density | structure and additional observations |
| | | | | | | | | **CONCRETE**. | | | |
| HA | | E: Sample | | | | | | **Silty CLAY**: well graded, brown. | D | S and MD | |
| | | | | | | | | colour change to yellow / brown. firming. | | F and MD | |
| | | E: Sample | | | | | | | | | |
| | | E: Sample | | | 0.5 | | | | | | |
| | | | | | | | | Borehole 01 terminated at 0.60 m | | | |

**method**
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- MR mud rotary
- W washbore

* bit shown by suffix
e.g. AD/T
B blank bit
T TC bit
V V bit

**support**
- M mud
- C casing
- N nill

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

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

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

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

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

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# Environmental Log - Borehole

| | | | |
|---|---|---|---|
| | | Hole ID. | ***02*** |
| | | sheet: | 1 of 1 |
| | | project no. | ***754-BNEEN282781*** |
| client: | ***Department of Veteran Affairs*** | date started: | ***03 Sep 2021*** |
| principal: | ***Jeremy Wicks*** | date completed: | ***03 Sep 2021*** |
| project: | ***DVA Greennslopes Remediation*** | logged by: | ***MP*** |
| location: | ***114 Newdegate Street, Greenslopes QLD 4120*** | checked by: | ***JW*** |

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

equipment type: | drilling fluid: | hole diameter :

| drilling information | | | | | | material substance | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| method & support | water | samples & field tests | photoionization detector (ppmv) | RL (m) | depth (m) | graphic log | soil group symbol | material description<br>**SOIL NAME**: plasticity or particle characteristic, colour, secondary and minor components | moisture condition | consistency / relative density | structure and additional observations |
| | | | | | | | | **CONCRETE**. | | | |
| HA | | E: Sample | | | | | | **Silty CLAY**: well graded, low plasticity, brown. | D | F and MD | |
| | | E: Sample | | | 0.5 | | | as above. orange / brown. firming with depth. low-medium plasticity | D to M | St and MD | |
| | | | | | | | | Borehole 02 terminated at 0.60 m | | | |

**method**
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- MR mud rotary
- W washbore

* bit shown by suffix
e.g. AD/T
B blank bit
T TC bit
V V bit

**support**
- M mud
- C casing
- N nill

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

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

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

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

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

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# Environmental Log - Borehole

| | | | |
|---|---|---|---|
| | | Hole ID. | ***03*** |
| | | sheet: | 1 of 1 |
| | | project no. | ***754-BNEEN282781*** |
| client: | ***Department of Veteran Affairs*** | date started: | ***03 Sep 2021*** |
| principal: | ***Jeremy Wicks*** | date completed: | ***03 Sep 2021*** |
| project: | ***DVA Greennslopes Remediation*** | logged by: | ***MP*** |
| location: | ***114 Newdegate Street, Greenslopes QLD 4120*** | checked by: | ***JW*** |

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

equipment type: | drilling fluid: | hole diameter :

| drilling information | | | | | | material substance | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| method & support | water | samples & field tests | photoionization detector (ppmv) | RL (m) | depth (m) | graphic log | soil group symbol | material description<br>**SOIL NAME**: plasticity or particle characteristic, colour, secondary and minor components | moisture condition | consistency / relative density | structure and additional observations |
| | | | | | | | | **CONCRETE**. | | | |
| HA | | E: Sample | | | | | | **Silty CLAY**: well graded, low plasticity, red / brown. | D | S and L | |
| | | | | | | | | yellow / brown. low-medium plastic | D to M | St and MD | |
| | | E: Sample | | | | | | | | | |
| | | E: Sample | | | 0.5 | | | stiffening | | St and MD | |
| | | | | | | | | Borehole 03 terminated at 0.60 m | | | |

**method**
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- MR mud rotary
- W washbore

* bit shown by suffix
e.g. AD/T
B blank bit
T TC bit
V V bit

**support**
- M mud
- C casing
- N nill

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

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

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

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

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

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# Environmental Log - Borehole

| | | | |
|---|---|---|---|
| | | Hole ID. | ***04*** |
| | | sheet: | 1 of 1 |
| | | project no. | ***754-BNEEN282781*** |
| client: | ***Department of Veteran Affairs*** | date started: | ***03 Sep 2021*** |
| principal: | ***Jeremy Wicks*** | date completed: | ***03 Sep 2021*** |
| project: | ***DVA Greennslopes Remediation*** | logged by: | ***MP*** |
| location: | ***114 Newdegate Street, Greenslopes QLD 4120*** | checked by: | ***JW*** |

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

equipment type: | drilling fluid: | hole diameter :

| drilling information | | | | | | material substance | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| method & support | water | samples & field tests | photoionization detector (ppmv) | RL (m) | depth (m) | graphic log | soil group symbol | material description<br>**SOIL NAME**: plasticity or particle characteristic, colour, secondary and minor components | moisture condition | consistency / relative density | structure and additional observations |
| | | | | | | | | **CONCRETE**. | | | |
| HA | | E: Sample | | | | | | **Silty CLAY**: low plasticity, Brown, occasional gravel / rock (50-60mm). | D | F and MD | |
| | | | | | | | | colour change to red / brown. firming with depth. medium plasticity | D to M | | |
| | | E: Sample | | | | | | | | | |
| | | E: Sample | | | 0.5 | | | | | | |
| | | | | | | | | Borehole 04 terminated at 0.60 m | | | |

**method**
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- MR mud rotary
- W washbore

* bit shown by suffix
e.g. AD/T
B blank bit
T TC bit
V V bit

**support**
- M mud
- C casing
- N nill

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

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

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

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

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

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# Environmental Log - Borehole

| | | | |
|---|---|---|---|
| | | Hole ID. | ***05*** |
| | | sheet: | 1 of 1 |
| | | project no. | ***754-BNEEN282781*** |
| client: | ***Department of Veteran Affairs*** | date started: | ***03 Sep 2021*** |
| principal: | ***Jeremy Wicks*** | date completed: | ***03 Sep 2021*** |
| project: | ***DVA Greennslopes Remediation*** | logged by: | ***MP*** |
| location: | ***114 Newdegate Street, Greenslopes QLD 4120*** | checked by: | ***JW*** |

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

equipment type: | drilling fluid: | hole diameter :

| drilling information | | | | | | material substance | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| method & support | water | samples & field tests | photoionization detector (ppmv) | RL (m) | depth (m) | graphic log | soil group symbol | material description<br>**SOIL NAME**: plasticity or particle characteristic, colour, secondary and minor components | moisture condition | consistency / relative density | structure and additional observations |
| | | | | | | | | **CONCRETE**. | | | |
| HA | | E: Sample | | | | | | **Silty CLAY**: sub-angular, low plasticity, brown, occasional rocks (60 - 70mm). | D | F and MD | |
| | | E: Sample | | | | | | | | | |
| | | | | | | | | red / brown. Well sorted. Low to medium plasticity | D to M | | |
| | | E: Sample | | | 0.5 | | | | | | |
| | | | | | | | | Borehole 05 terminated at 0.60 m | | | |

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**method**

| | |
|---|---|
| AD | auger drilling* |
| AS | auger screwing* |
| HA | hand auger |
| MR | mud rotary |
| W | washbore |
| * | bit shown by suffix |
| e.g. | AD/T |
| B | blank bit |
| T | TC bit |
| V | V bit |

**support**

| | |
|---|---|
| M | mud |
| C | casing |
| N | nill |

**water**

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

**samples & field tests**

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

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

**moisture condition**

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

**consistency / relative density**

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

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# Environmental Log - Borehole

| | | | |
|---|---|---|---|
| | | Hole ID. | ***06*** |
| | | sheet: | 1 of 1 |
| | | project no. | ***754-BNEEN282781*** |
| client: | ***Department of Veteran Affairs*** | date started: | ***03 Sep 2021*** |
| principal: | ***Jeremy Wicks*** | date completed: | ***03 Sep 2021*** |
| project: | ***DVA Greennslopes Remediation*** | logged by: | ***MP*** |
| location: | ***114 Newdegate Street, Greenslopes QLD 4120*** | checked by: | ***JW*** |

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

equipment type: | drilling fluid: | hole diameter :

| drilling information | | | | | | material substance | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| method & support | water | samples & field tests | photoionization detector (ppmv) | RL (m) | depth (m) | graphic log | soil group symbol | material description<br>**SOIL NAME**: plasticity or particle characteristic, colour, secondary and minor components | moisture condition | consistency / relative density | structure and additional observations |
| | | | | | | | | **CONCRETE**. | | | |
| HA | | E: Sample | | | | | | **FILL**: coarse grained, yellow / brown, bedding sands.<br><br>band of dark grey / black ash and slag fragments in yellow/brown bedding sands | D | S and L | |
| | | E: Sample | | | | | | **Silty CLAY**: well graded, low plasticity, red/ brown, firming with depth. | D to M | F and MD | |
| | | E: Sample | | | 0.5 | | | Borehole 06 terminated at 0.50 m | | | |

**method**
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- MR mud rotary
- W washbore

* bit shown by suffix
e.g. AD/T
B blank bit
T TC bit
V V bit

**support**
- M mud
- C casing
- N nill

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

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

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

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

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

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# Environmental Log - Borehole

| | | | |
|---|---|---|---|
| | | Hole ID. | ***07*** |
| | | sheet: | 1 of 1 |
| | | project no. | ***754-BNEEN282781*** |
| client: | ***Department of Veteran Affairs*** | date started: | ***03 Sep 2021*** |
| principal: | ***Jeremy Wicks*** | date completed: | ***03 Sep 2021*** |
| project: | ***DVA Greennslopes Remediation*** | logged by: | ***MP*** |
| location: | ***114 Newdegate Street, Greenslopes QLD 4120*** | checked by: | ***JW*** |

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

equipment type: | drilling fluid: | hole diameter :

| drilling information | | | | | | material substance | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| method & support | water | samples & field tests | photoionization detector (ppmv) | RL (m) | depth (m) | graphic log | soil group symbol | material description<br>**SOIL NAME**: plasticity or particle characteristic, colour, secondary and minor components | moisture condition | consistency / relative density | structure and additional observations |
| | | | | | | | | **CONCRETE**. | | | |
| | | E: Sample | | | | | | **FILL**: coarse grained, to 5 mm, well graded, bedding sands. | D | S and L | |
| HA | | E: Sample | | | | | | **Silty CLAY**: low plasticity, brown, occasional patches of orange.<br>orange / brown. well sorted. low-medium plasticity | | F and MD | |
| | | E: Sample | | | 0.5 | | | Borehole 07 terminated at 0.50 m | | | |

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**method**
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- MR mud rotary
- W washbore

* bit shown by suffix
e.g. AD/T
B blank bit
T TC bit
V V bit

**support**
- M mud
- C casing
- N nill

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

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

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

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

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

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# Environmental Log - Borehole

| | | | |
|---|---|---|---|
| | | Hole ID. | **08** |
| | | sheet: | 1 of 1 |
| | | project no. | **754-BNEEN282781** |
| client: | **Department of Veteran Affairs** | date started: | **03 Sep 2021** |
| principal: | **Jeremy Wicks** | date completed: | **03 Sep 2021** |
| project: | **DVA Greennslopes Remediation** | logged by: | **MP** |
| location: | **114 Newdegate Street, Greenslopes QLD 4120** | checked by: | **JW** |

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

equipment type: | drilling fluid: | hole diameter :

| drilling information | | | | | | material substance | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| method & support | water | samples & field tests | photoionization detector (ppmv) | RL (m) | depth (m) | graphic log | soil group symbol | material description<br>**SOIL NAME**: plasticity or particle characteristic, colour, secondary and minor components | moisture condition | consistency / relative density | structure and additional observations |
| | | | | | | | | **CONCRETE**. | | | |
| HA | | E: Sample | | | | | | **Silty CLAY**: sub-angular, low plasticity, red/brown, occasional rock framgments (sub-angular, 10-15mm). | D | F and MD | |
| | | E: Sample | | | | | | well sorted. orange/brown. low-medium plasticity | D to M | | |
| | | E: Sample | | | 0.5 | | | Borehole 08 terminated at 0.50 m | | | |

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**method**
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- MR mud rotary
- W washbore

* bit shown by suffix
e.g. AD/T
B blank bit
T TC bit
V V bit

**support**
- M mud
- C casing
- N nill

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

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

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

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

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

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# Environmental Log - Borehole

| | | | |
|---|---|---|---|
| | | Hole ID. | **09** |
| | | sheet: | 1 of 1 |
| | | project no. | **754-BNEEN282781** |
| client: | **Department of Veteran Affairs** | date started: | **03 Sep 2021** |
| principal: | **Jeremy Wicks** | date completed: | **03 Sep 2021** |
| project: | **DVA Greennslopes Remediation** | logged by: | **MP** |
| location: | **114 Newdegate Street, Greenslopes QLD 4120** | checked by: | **JW** |

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

equipment type: | drilling fluid: | hole diameter :

| drilling information | | | | | | material substance | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| method & support | water | samples & field tests | photoionization detector (ppmv) | RL (m) | depth (m) | graphic log | soil group symbol | material description<br>**SOIL NAME**: plasticity or particle characteristic, colour, secondary and minor components | moisture condition | consistency / relative density | structure and additional observations |
| HA | | E: Sample | | | | | | **CONCRETE**. | | | Concrete slab sample - used jackhammer to get chunk of pavement. Slab was approx 100mm thick. Placed into heavy duty sample bags. Each slab sample was collected from interface with underlying soils. |
| | | | | | 0.5 | | | Borehole 09 terminated at 0.10 m | | | |

**method**
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- MR mud rotary
- W washbore

* bit shown by suffix
e.g. AD/T
B blank bit
T TC bit
V V bit

**support**
- M mud
- C casing
- N nill

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

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

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

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

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

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# Environmental Log - Borehole

| | | | |
|---|---|---|---|
| | | Hole ID. | **10** |
| | | sheet: | 1 of 1 |
| | | project no. | **754-BNEEN282781** |
| client: | **Department of Veteran Affairs** | date started: | **03 Sep 2021** |
| principal: | **Jeremy Wicks** | date completed: | **03 Sep 2021** |
| project: | **DVA Greennslopes Remediation** | logged by: | **MP** |
| location: | **114 Newdegate Street, Greenslopes QLD 4120** | checked by: | **JW** |

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

equipment type: | drilling fluid: | hole diameter :

| drilling information | | | | | | material substance | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| method & support | water | samples & field tests | photoionization detector (ppmv) | RL (m) | depth (m) | graphic log | soil group symbol | material description<br>**SOIL NAME**: plasticity or particle characteristic, colour, secondary and minor components | moisture condition | consistency / relative density | structure and additional observations |
| HA | | E: Sample | | | | | | **CONCRETE**. | | | Concrete slab sample - used jackhammer to get chunk of pavement. Slab was approx 100mm thick. Placed into heavy duty sample bags. Each slab sample was collected from interface with underlying soils. |
| | | | | | 0.5 | | | Borehole 10 terminated at 0.10 m | | | |

**method**
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- MR mud rotary
- W washbore

* bit shown by suffix
e.g. AD/T
B blank bit
T TC bit
V V bit

**support**
- M mud
- C casing
- N nill

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

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

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

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

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

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# Environmental Log - Borehole

| | | | |
|---|---|---|---|
| | | Hole ID. | ***11*** |
| | | sheet: | 1 of 1 |
| | | project no. | ***754-BNEEN282781*** |
| client: | ***Department of Veteran Affairs*** | date started: | ***03 Sep 2021*** |
| principal: | ***Jeremy Wicks*** | date completed: | ***03 Sep 2021*** |
| project: | ***DVA Greennslopes Remediation*** | logged by: | ***MP*** |
| location: | ***114 Newdegate Street, Greenslopes QLD 4120*** | checked by: | ***JW*** |

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

equipment type: | drilling fluid: | hole diameter :

| drilling information | | | | | | material substance | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| method & support | water | samples & field tests | photoionization detector (ppmv) | RL (m) | depth (m) | graphic log | soil group symbol | material description<br>**SOIL NAME**: plasticity or particle characteristic, colour, secondary and minor components | moisture condition | consistency / relative density | structure and additional observations |
| HA | | E: Sample | | | | | | **CONCRETE**. | | | Concrete slab sample - used jackhammer to get chunk of pavement. Slab was approx 100mm thick. Placed into heavy duty sample bags. Each slab sample was collected from interface with underlying soils. |
| | | | | | 0.5 | | | Borehole 11 terminated at 0.10 m | | | |

**method**
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- MR mud rotary
- W washbore

* bit shown by suffix
e.g. AD/T
B blank bit
T TC bit
V V bit

**support**
- M mud
- C casing
- N nill

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

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

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

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

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

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# Environmental Log - Borehole

| | | | |
|---|---|---|---|
| | | Hole ID. | **12** |
| | | sheet: | 1 of 1 |
| | | project no. | **754-BNEEN282781** |
| client: | **Department of Veteran Affairs** | date started: | **03 Sep 2021** |
| principal: | **Jeremy Wicks** | date completed: | **03 Sep 2021** |
| project: | **DVA Greennslopes Remediation** | logged by: | **MP** |
| location: | **114 Newdegate Street, Greenslopes QLD 4120** | checked by: | **JW** |

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

equipment type: | drilling fluid: | hole diameter :

| drilling information | | | | | | material substance | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| method & support | water | samples & field tests | photoionization detector (ppmv) | RL (m) | depth (m) | graphic log | soil group symbol | material description<br>**SOIL NAME**: plasticity or particle characteristic, colour, secondary and minor components | moisture condition | consistency / relative density | structure and additional observations |
| HA | | E: Sample | | | | | | **FILL**: grey, loose silty sand, adjacent to slab at approximately the centre of the building basement. | | | |
| | | | | | 0.5 | | | Borehole 12 terminated at 0.10 m | | | |

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**method**
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- MR mud rotary
- W washbore

- * bit shown by suffix
- e.g. AD/T
- B blank bit
- T TC bit
- V V bit

**support**
- M mud
- C casing
- N nill

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

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

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

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

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

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# Environmental Log - Borehole

| | | | |
|---|---|---|---|
| | | Hole ID. | **13** |
| | | sheet: | 1 of 1 |
| | | project no. | **754-BNEEN282781** |
| client: | **Department of Veteran Affairs** | date started: | **03 Sep 2021** |
| principal: | **Jeremy Wicks** | date completed: | **03 Sep 2021** |
| project: | **DVA Greennslopes Remediation** | logged by: | **MP** |
| location: | **114 Newdegate Street, Greenslopes QLD 4120** | checked by: | **JW** |

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

equipment type: | drilling fluid: | hole diameter :

| drilling information | | | | | | material substance | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| method & support | water | samples & field tests | photoionization detector (ppmv) | RL (m) | depth (m) | graphic log | soil group symbol | material description<br>**SOIL NAME**: plasticity or particle characteristic, colour, secondary and minor components | moisture condition | consistency / relative density | structure and additional observations |
| HA | | E: Sample | | | | | | **FILL**: brown / grey, Silty sand topsoil. Adjacent to staircase.. | | | |
| | | | | | | | | Borehole 13 terminated at 0.10 m | | | |
| | | | | | 0.5 | | | | | | |

**method**
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- MR mud rotary
- W washbore

* bit shown by suffix
e.g. AD/T
B blank bit
T TC bit
V V bit

**support**
- M mud
- C casing
- N nill

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

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

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

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

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

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# Environmental Log - Borehole

| | | | |
|---|---|---|---|
| | | Hole ID. | ***14*** |
| | | sheet: | 1 of 1 |
| | | project no. | ***754-BNEEN282781*** |
| client: | ***Department of Veteran Affairs*** | date started: | ***03 Sep 2021*** |
| principal: | ***Jeremy Wicks*** | date completed: | ***03 Sep 2021*** |
| project: | ***DVA Greennslopes Remediation*** | logged by: | ***MP*** |
| location: | ***114 Newdegate Street, Greenslopes QLD 4120*** | checked by: | ***JW*** |

position: Not Specified | surface elevation: Not Specified | angle from horizontal: 90°
equipment type: | drilling fluid: | hole diameter :

| drilling information | | | | | | material substance | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| method & support | water | samples & field tests | photoionization detector (ppmv) | RL (m) | depth (m) | graphic log | soil group symbol | material description<br>**SOIL NAME**: plasticity or particle characteristic, colour, secondary and minor components | moisture condition | consistency / relative density | structure and additional observations |
| HA | | E: Sample | | | | | | **FILL: Gravelly Silty CLAY**: poorly graded, grey / brown. | D | F and L | |
| | | | | | | | | Dark grey / brown | | | |
| | | E: Sample | | | | | | | | | |
| | | | | | | | | **Silty CLAY**.<br>Yellow / brown. Some gravel patches. | | S and MD | |
| | | E: Sample | | | 0.5 | | | | | | |
| | | | | | | | | Refusal @ 0.65m<br>Borehole 14 terminated at 0.65 m | | | |

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**method**
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- MR mud rotary
- W washbore

- * bit shown by suffix
- e.g. AD/T
- B blank bit
- T TC bit
- V V bit

**support**
- M mud
- C casing
- N nill

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

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

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

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

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

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# Environmental Log - Borehole

| | | | |
|---|---|---|---|
| | | Hole ID. | ***15*** |
| | | sheet: | 1 of 1 |
| | | project no. | ***754-BNEEN282781*** |
| client: | ***Department of Veteran Affairs*** | date started: | ***03 Sep 2021*** |
| principal: | ***Jeremy Wicks*** | date completed: | ***03 Sep 2021*** |
| project: | ***DVA Greennslopes Remediation*** | logged by: | ***MP*** |
| location: | ***114 Newdegate Street, Greenslopes QLD 4120*** | checked by: | ***JW*** |

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

equipment type: | drilling fluid: | hole diameter :

| drilling information | | | | | | material substance | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| method & support | water | samples & field tests | photoionization detector (ppmv) | RL (m) | depth (m) | graphic log | soil group symbol | material description<br>**SOIL NAME**: plasticity or particle characteristic, colour, secondary and minor components | moisture condition | consistency / relative density | structure and additional observations |
| HA | | E: Sample | | | | | | **FILL: Gravelly Silty CLAY**: grey/brown. | | S and MD | |
| | | E: Sample | | | | | | **Silty CLAY**: low plasticity, red/brown, occasional sub-rounded gravel.<br>orange/brown. Well sorted. Medium plasticity | | F and MD | |
| | | E: Sample | | | 0.5 | | | EoH @ 0.5 - Natural<br>Borehole 15 terminated at 0.50 m | | | |

**method**
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- MR mud rotary
- W washbore

* bit shown by suffix
e.g. AD/T
B blank bit
T TC bit
V V bit

**support**
- M mud
- C casing
- N nill

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

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

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

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

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

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# Environmental Log - Borehole

| | | | |
|---|---|---|---|
| | | Hole ID. | **16** |
| | | sheet: | 1 of 1 |
| | | project no. | **754-BNEEN282781** |
| client: | **Department of Veteran Affairs** | date started: | **03 Sep 2021** |
| principal: | **Jeremy Wicks** | date completed: | **03 Sep 2021** |
| project: | **DVA Greennslopes Remediation** | logged by: | **MP** |
| location: | **114 Newdegate Street, Greenslopes QLD 4120** | checked by: | **JW** |

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

equipment type: | drilling fluid: | hole diameter :

| drilling information | | | | | | material substance | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| method & support | water | samples & field tests | photoionization detector (ppmv) | RL (m) | depth (m) | graphic log | soil group symbol | material description<br>**SOIL NAME**: plasticity or particle characteristic, colour, secondary and minor components | moisture condition | consistency / relative density | structure and additional observations |
| HA | | E: Sample | | | | | | **FILL: Gravelly Silty CLAY**: poorly graded, grey / brown. | D | S and MD | QC11/12 @ 0.1 |
| | | E: Sample | | | | | | **Silty CLAY**: well graded, low plasticity, red / brown. | | F and MD | |
| | | | | | | | | as above with orange / brown particles. Low to medium plasticity | D to M | | |
| | | E: Sample | | | 0.5 | | | Natural @ 0.5<br>Borehole 16 terminated at 0.50 m | | | |

**method**
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- MR mud rotary
- W washbore

* bit shown by suffix
e.g. AD/T
B blank bit
T TC bit
V V bit

**support**
- M mud
- C casing
- N nill

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

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

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

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

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

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# Environmental Log - Borehole

| | | | |
|---|---|---|---|
| | | Hole ID. | ***17*** |
| | | sheet: | 1 of 1 |
| | | project no. | ***754-BNEEN282781*** |
| client: | ***Department of Veteran Affairs*** | date started: | ***03 Sep 2021*** |
| principal: | ***Jeremy Wicks*** | date completed: | ***03 Sep 2021*** |
| project: | ***DVA Greennslopes Remediation*** | logged by: | ***MP*** |
| location: | ***114 Newdegate Street, Greenslopes QLD 4120*** | checked by: | ***JW*** |

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

equipment type: | drilling fluid: | hole diameter :

| drilling information | | | | | | material substance | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| method & support | water | samples & field tests | photoionization detector (ppmv) | RL (m) | depth (m) | graphic log | soil group symbol | material description<br>**SOIL NAME**: plasticity or particle characteristic, colour, secondary and minor components | moisture condition | consistency / relative density | structure and additional observations |
| HA | | | | | | | | **FILL: Gravelly Silty CLAY**: poorly graded, grey / brown. | D | S and MD | |
| | | E: Sample | | | | | | | | | |
| | | | | | | | | Firmer. Less gravel | | F and MD | |
| | | E: Sample | | | | | | **FILL**: Ash and slag in silty clay matrix. | | St and L | |
| | | E: Sample | | | 0.5 | | | | | | |
| | | | | | | | | **Silty CLAY**: Yellow / brown.. | | | |
| | | | | | | | | End of fill @ approximately 0.60 m<br>Borehole 17 terminated at 0.65 m | | | |

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**method**
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- MR mud rotary
- W washbore

* bit shown by suffix
e.g. AD/T
B blank bit
T TC bit
V V bit

**support**
- M mud
- C casing
- N nill

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

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

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

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

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

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# Environmental Log - Borehole

| | | | |
|---|---|---|---|
| | | Hole ID. | ***18*** |
| | | sheet: | 1 of 1 |
| | | project no. | ***754-BNEEN282781*** |
| client: | ***Department of Veteran Affairs*** | date started: | ***03 Sep 2021*** |
| principal: | ***Jeremy Wicks*** | date completed: | ***03 Sep 2021*** |
| project: | ***DVA Greennslopes Remediation*** | logged by: | ***MP*** |
| location: | ***114 Newdegate Street, Greenslopes QLD 4120*** | checked by: | ***JW*** |

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

equipment type: | drilling fluid: | hole diameter :

| drilling information | | | | | | material substance | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| method & support | water | samples & field tests | photoionization detector (ppmv) | RL (m) | depth (m) | graphic log | soil group symbol | material description<br>**SOIL NAME**: plasticity or particle characteristic, colour, secondary and minor components | moisture condition | consistency / relative density | structure and additional observations |
| HA | | E: Sample | | | | | | **FILL: Gravelly Silty CLAY**: poorly graded, brown. | | | |
| | | E: Sample | | | | | | **FILL**: poorly graded, Pale grey / black, Ash and slag in silty clay matrix. | | | |
| | | E: Sample | | | 0.5 | | | | | | QC05/06 @ 0.5m |
| | | | | | | | | **Silty CLAY**: well graded, yellow/orange/brown. | | | |
| | | | | | | | | End of fill @ approximately 0.6m<br>Borehole 18 terminated at 0.60 m | | | |

**method**
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- MR mud rotary
- W washbore

* bit shown by suffix
e.g. AD/T
B blank bit
T TC bit
V V bit

**support**
- M mud
- C casing
- N nill

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

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

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

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

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

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# Environmental Log - Borehole

| | | | |
|---|---|---|---|
| | | Hole ID. | **19** |
| | | sheet: | 1 of 1 |
| | | project no. | **754-BNEEN282781** |
| client: | **Department of Veteran Affairs** | date started: | **03 Sep 2021** |
| principal: | **Jeremy Wicks** | date completed: | **03 Sep 2021** |
| project: | **DVA Greennslopes Remediation** | logged by: | **MP** |
| location: | **114 Newdegate Street, Greenslopes QLD 4120** | checked by: | **JW** |

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

equipment type: | drilling fluid: | hole diameter :

| drilling information | | | | | | material substance | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| method & support | water | samples & field tests | photoionization detector (ppmv) | RL (m) | depth (m) | graphic log | soil group symbol | material description<br>**SOIL NAME**: plasticity or particle characteristic, colour, secondary and minor components | moisture condition | consistency / relative density | structure and additional observations |
| HA | | | | | | | | **FILL: Gravelly SILTY SAND**: Grey / brown. | D | S and L | |
| | | E: Sample | | | | | | **FILL: Gravelly CLAY**: dark grey / black, slag in gravelly clay matrix. | | St and L | |
| | | | | | | | | **Gravelly CLAY**: poorly graded, yellow / brown, weathered bedrock. | | F and MD | |
| | | E: Sample | | | | | | | | | QC01/02 @0.3 |
| | | E: Sample | | | 0.5 | | | | | | |
| | | | | | | | | Borehole 19 terminated at 0.65 m | | | |

**method**
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- MR mud rotary
- W washbore

* bit shown by suffix
e.g. AD/T
B blank bit
T TC bit
V V bit

**support**
- M mud
- C casing
- N nill

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

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

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

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

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

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# Environmental Log - Borehole

| | | | |
|---|---|---|---|
| | | Hole ID. | **20** |
| | | sheet: | 1 of 1 |
| | | project no. | **754-BNEEN282781** |
| client: | **Department of Veteran Affairs** | date started: | **03 Sep 2021** |
| principal: | **Jeremy Wicks** | date completed: | **03 Sep 2021** |
| project: | **DVA Greennslopes Remediation** | logged by: | **MP** |
| location: | **114 Newdegate Street, Greenslopes QLD 4120** | checked by: | **JW** |

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

equipment type: | drilling fluid: | hole diameter :

| drilling information | | | | | | material substance | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| method & support | water | samples & field tests | photoionization detector (ppmv) | RL (m) | depth (m) | graphic log | soil group symbol | material description<br>**SOIL NAME**: plasticity or particle characteristic, colour, secondary and minor components | moisture condition | consistency / relative density | structure and additional observations |
| HA | | E: Sample<br>E: Sample | | | | | | **FILL: Gravelly Silty CLAY**: poorly graded, grey / brown. | D | F and MD | |
| | | | | | | | | **Silty CLAY**: well graded, medium plasticity, orange/brown. | D to M | | |
| | | E: Sample | | | 0.5 | | | EoH @0.5 - natural<br>Borehole 20 terminated at 0.50 m | | | |

**method**
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- MR mud rotary
- W washbore

* bit shown by suffix
e.g. AD/T
B blank bit
T TC bit
V V bit

**support**
- M mud
- C casing
- N nill

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

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

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

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

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

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# Environmental Log - Borehole

| | | | |
|---|---|---|---|
| | | Hole ID. | ***21*** |
| | | sheet: | 1 of 1 |
| | | project no. | ***754-BNEEN282781*** |
| client: | ***Department of Veteran Affairs*** | date started: | ***03 Sep 2021*** |
| principal: | ***Jeremy Wicks*** | date completed: | ***03 Sep 2021*** |
| project: | ***DVA Greennslopes Remediation*** | logged by: | ***MP*** |
| location: | ***114 Newdegate Street, Greenslopes QLD 4120*** | checked by: | ***JW*** |

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

equipment type: | drilling fluid: | hole diameter :

| drilling information | | | | | | material substance | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| method & support | water | samples & field tests | photoionization detector (ppmv) | RL (m) | depth (m) | graphic log | soil group symbol | material description<br>**SOIL NAME**: plasticity or particle characteristic, colour, secondary and minor components | moisture condition | consistency / relative density | structure and additional observations |
| | | | | | | | | **CONCRETE**. | | | |
| | | E: Sample | | | | | | **FILL**: low plasticity, brown, gravelly, silty clay and bedding sands. | D | S and MD | |
| HA | | E: Sample | | | | | | **Silty CLAY**: well graded, low to medium plasticity, red / brown.<br>colour change to orange / brown particles in red / brown silty clay | D to M | F and MD | |
| | | E: Sample | | | 0.5 | | | Borehole 21 terminated at 0.50 m | | | |

**method**
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- MR mud rotary
- W washbore

* bit shown by suffix
e.g. AD/T
B blank bit
T TC bit
V V bit

**support**
- M mud
- C casing
- N nill

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

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

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

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

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

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# Environmental Log - Borehole

| | | | |
|---|---|---|---|
| | | Hole ID. | ***MW01*** |
| | | sheet: | 1 of 2 |
| | | project no. | ***754-BNEEN282781*** |
| client: | ***Department of Veteran Affairs*** | date started: | ***17 Sep 2021*** |
| principal: | ***Jeremy Wicks*** | date completed: | ***17 Sep 2021*** |
| project: | ***DVA Greennslopes Remediation*** | logged by: | ***MP*** |
| location: | ***114 Newdegate Street, Greenslopes QLD 4120*** | checked by: | ***JW*** |

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

equipment type: Geoprobe 66200DT, Track mounted | drilling fluid: | casing diameter : PVC

**drilling information** | **well details** | **material substance**

| method & support | water | samples & field tests | photoionization detector (ppmv) | MW01 | depth (m) | graphic log | soil group symbol | material description<br>**SOIL NAME**: plasticity or particle characteristic, colour, secondary and minor components | moisture condition | consistency / relative density | structure and additional observations |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NDD | Not Encountered | E | | | | | | **TOPSOIL**: uniform, low plasticity, dark grey. | D | L | |
| | | E | | | | | | **FILL: CLAYEY SAND**: fine to medium grained, poorly graded, low plasticity, dark grey. | D | L | |
| | | | | | | | | dark grey/black ash throughout | D | L | |
| | | E | | | 0.5 | | | **FILL: CLAYEY SAND**: fine to coarse grained, poorly graded, low plasticity, brown. | D | F | |
| | | E | | | | | | **Silty CLAY**: well graded, medium plasticity, brown. | | | |
| | | E | | | 1.0 | | | | | | |
| PT | | E | | | 1.5 | | | **Silty CLAY**: well graded, low plasticity, brown.<br>harder with sub angular gravels | D | St | |
| PVC casing | | E | | | 2.0 | | | | | | |
| | | E | | | 2.5 | | | **WEATHERED MUDSTONE**: poorly graded, low plasticity, brown.<br>sub angular gravels | D | St | |
| | | E | | | 3.0 | | | **Silty CLAY**: poorly graded, low plasticity, brown.<br>occasional red/brown patches | D | St | minor light grey clay content |
| | | E | | | 3.5 | | | **WEATHERED MUDSTONE**: poorly graded, low plasticity, yellow/brown.<br>transition to weathered bedrock | D | St | |

**method**

| | |
|---|---|
| AD | auger drilling* |
| AS | auger screwing* |
| HA | hand auger |
| MR | mud rotary |
| W | washbore |
| NDD | hand auger |
| PT | non destructive drilling push tube |
| * | bit shown by suffix |
| e.g. | AD/T |
| B | blank bit |
| T | TC bit |
| V | V bit |

**support**

| | |
|---|---|
| M | mud |
| C | casing |
| N | nill |

**water**

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

**samples & field tests**

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

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

**moisture condition**

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

**consistency / relative density**

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

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# Environmental Log - Borehole

| | | | |
|---|---|---|---|
| Hole ID. | ***MW01*** | | |
| sheet: | 2 of 2 | | |
| project no. | ***754-BNEEN282781*** | | |
| client: | ***Department of Veteran Affairs*** | date started: | ***17 Nov 2021*** |
| principal: | ***Jeremy Wicks*** | date completed: | ***17 Nov 2021*** |
| project: | ***DVA Greennslopes Remediation*** | logged by: | ***MP*** |
| location: | ***114 Newdegate Street, Greenslopes QLD 4120*** | checked by: | ***JW*** |

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

equipment type: Geoprobe 66200DT, Track mounted | drilling fluid: | casing diameter : PVC

**drilling information** | **well details** | **material substance**

| method & support | water | samples & field tests | photoionization detector (ppmv) | depth (m) | graphic log | soil group symbol | material description<br>**SOIL NAME**: plasticity or particle characteristic, colour, secondary and minor components | moisture condition | consistency / relative density | structure and additional observations |
|---|---|---|---|---|---|---|---|---|---|---|
| PT<br>PVC casing | Not Encountered | | | | | | **WEATHERED MUDSTONE**: poorly graded, low plasticity, yellow/brown. *(continued)* | D | St | |
| | | E | | 4.5 | | | **WEATHERED MUDSTONE**: poorly graded, low plasticity, yellow/brown.<br>firming with depth | D | VD | |
| | | E | | 5.0 | | | **WEATHERED MUDSTONE**: poorly graded, low plasticity, grey/brown. | D | H | |
| | | E | | 5.5 | | | | | | |
| | | E | | 6.0 | | | Borehole MW01 terminated at 6.00 m<br>Target depth | | | **well details:**<br>drilling company: Proactive Drilling Services<br>driller: Phil Brinton<br>**standpipe piezo. MW01 details:**<br>3.0-6.0m: screen |
| | | | | 6.5 | | | | | | |
| | | | | 7.0 | | | | | | |
| | | | | 7.5 | | | | | | |

**method**
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- MR mud rotary
- W washbore
- NDD hand auger
- PT non destructive drilling push tube
- * bit shown by suffix
- e.g. AD/T
- B blank bit
- T TC bit
- V V bit

**support**
- M mud
- C casing
- N nill

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

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

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

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

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

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# APPENDIX C: DATA TABLES

**DVA Greenslopes Soil Data Table**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Sampled_Date | Asbestos | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Asbestos (ID) (ND - not detected) | ACM (w/w) | Asbestos Fines (w/w) | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endrin aldehyde | Endrin ketone | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Total OCP |
| Units | - | - | - | - | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EIL - Res/Open Space | | | - | | - | | - | | | | | | | | | 180 | | | | | | | | | | | | | | | | |
| HIL-A Residential | | | - | | - | 0.01% | 0.001% | | | | 6 | | 50 | | | | 240 | | | 270 | | | 10 | | 6 | | 10 | 300 | 20 | | |
| HIL-C Recreational | | | - | | - | 0.02% | 0.001% | | | | 10 | | 70 | | | | 400 | | | 340 | | | 20 | | 10 | | 10 | 400 | 30 | | |
| SS01 | 0 | 0.1 | Area 2B | 16/07/2013 | Chrysotile | | 0.007% (*) | 1.3 | <0.05 | <0.05 | <0.12 | <0.05 | 0.9 | <0.05 | 1.7 | 3.7 | 6.7 | 0.07 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | 7.67 |
| SS02 | 0 | 0.1 | Area 1 | 16/07/2013 | Chrysotile | | 0.022% (*) | <0.05 | <0.05 | <0.05 | <0.25 | <0.05 | 20 | <0.05 | <0.05 | 0.12 | <0.22 | 0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.26 | <0.05 | <0.05 | <0.1 | 20.58 |
| SS03 | 0 | 0.1 | Area 2A | 16/07/2013 | ND | | ND | 0.09 | <0.05 | 0.11 | 1.81 | <0.05 | 0.3 | <0.05 | <0.05 | 0.13 | <0.27 | 1.7 | <0.05 | 0.07 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | 2.4 |
| SS04 | 0 | 0.1 | Area 2A | 16/07/2013 | ND | | ND | <0.05 | <0.05 | <0.05 | 1.15 | <0.05 | 8.2 | <0.05 | <0.05 | <0.05 | <0.15 | 1.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.24 | <0.05 | <0.05 | <0.1 | 9.54 |
| SA01/A01 | 0 | 0.1 | Area 2A | 25/09/2013 | Chrysotile | | 0.0005% | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA02/A02 | 0 | 0.1 | Area 2A | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA03/A03 | 0 | 0.1 | Area 2A | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA04/A04 | 0 | 0.1 | Area 2A | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA05/A05 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0 | 0.1 | Area 2B | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0.3 | 0.4 | Area 2B | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA07/A07 | 0 | 0.1 | Area 2B | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA08/A08 | 0 | 0.1 | Area 2B | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA09/A09 | 0 | 0.1 | Area 1 | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA10/A10 | 0 | 0.1 | Area 1 | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA11/A11 | 0 | 0.1 | Area 1 | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA13/A13 | 0 | 0.1 | Area 1 | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | |
| Main Hall (under building) | 0 | 0 | Area 2B | 25/09/2013 | | 0.0149% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accomodation Building (under building) | 0 | 0 | Area 1 | 25/09/2013 | | 0.0303% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unsealed External Areas | 0 | 0.01 | | 25/09/2013 | | 0.0084% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A01, A04, A10 | 0.15 | 0.15 | | 25/09/2013 | | 0.0090% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A06, A10 | 0.15 | 0.15 | | 25/09/2013 | | 0.0038% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA01 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | 0.27 | - | 0.07 | 0.21 | < 0.05 | 31 | < 0.05 | 0.08 | 1.1 | 1.45 | 0.14 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.13 | < 0.05 | < 0.05 | < 0.05 | < 1 | 32.79 |
| HA02 | 0 | 0.1 | Area 3 | 25/09/2013 | | | | 0.23 | - | < 0.05 | <0.1 | < 0.05 | 51 | < 0.05 | 0.09 | 0.73 | 1.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.08 | 0.23 | < 0.05 | < 0.05 | < 1 | 52.36 |
| HA03 | 0 | 0.1 | Area 3 | 25/09/2013 | | | | 0.57 | - | < 0.05 | <0.11 | < 0.05 | 140 | < 0.05 | 0.18 | 1.6 | 2.35 | 0.06 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.14 | 0.51 | < 0.05 | < 0.05 | < 1 | 143.06 |
| HA04 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | < 0.05 | - | < 0.05 | <0.1 | < 0.05 | 4.7 | < 0.05 | < 0.05 | 0.41 | <0.51 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.07 | < 0.05 | < 0.05 | < 1 | 5.18 |
| HA05 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | < 0.05 | - | < 0.05 | <0.1 | < 0.05 | < 0.1 | < 0.05 | < 0.05 | 0.12 | <0.22 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 0.12 |
| QC01 (DUP HA05) | 0 | 0.1 | Area 2B | 26/09/2013 | | | | < 0.05 | - | < 0.05 | <0.1 | < 0.05 | < 0.1 | < 0.05 | < 0.05 | 0.06 | <0.22 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 0.06 |
| QC01A (TRIP HA05) | 0 | 0.1 | Area 2B | 26/09/2013 | | | | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.3 | <0.1 | <0.1 | | <0.1 | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | | <0.1 |
| HA06/SA11 | 0 | 0.1 | Area 2A | 25/09/2013 | ND | | | 0.49 | - | < 0.05 | <0.87 | < 0.05 | < 0.1 | < 0.05 | 0.27 | 4.2 | 4.96 | 0.82 | < 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 5.83 |
| HA07/SA12 | 0 | 0.1 | Area 1 | 25/09/2013 | | | | 0.05 | - | 0.26 | 28.26 | < 0.05 | 0.3 | < 0.05 | < 0.05 | 0.26 | <0.36 | 28 | < 0.05 | 0.96 | < 0.05 | < 0.05 | < 0.05 | 0.7 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 30.53 |
| HA08/SA13 | 0 | 0.1 | Area 1 | 25/09/2013 | ND | | | < 0.05 | - | < 0.05 | <0.13 | < 0.05 | < 0.1 | < 0.05 | < 0.05 | 0.13 | <0.23 | 0.08 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 0.21 |
| HA09 | 0 | 0.2 | Area 1 | 25/09/2013 | | | | 0.07 | - | 0.06 | 55.06 | < 0.05 | 0.3 | < 0.05 | < 0.05 | 0.22 | <0.34 | 55 | < 0.05 | 0.58 | < 0.05 | < 0.05 | < 0.05 | 0.93 | < 0.05 | < 0.05 | 0.06 | < 0.05 | < 0.05 | < 1 | 57.22 |
| HA10 | 0 | 0.2 | Area 1 | 25/09/2013 | | | | < 0.5 | - | 86 | 506 | < 0.05 | 5.4 | < 0.05 | < 0.05 | < 0.05 | <0.55 | 420 | < 0.05 | 8.5 | < 0.05 | < 0.05 | < 0.05 | 6.5 | < 0.05 | 0.87 | 0.11 | < 0.05 | < 0.05 | < 1 | 527.38 |
| HA11 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | 0.13 | - | < 0.05 | <0.44 | < 0.05 | 42 | < 0.05 | 0.06 | 0.16 | 0.35 | 0.39 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.2 | 1 | < 0.05 | < 0.05 | < 1 | 43.94 |
| 1-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | 0.82 | <0.05 | <0.05 | <0.05 | <0.05 | 0.3 | <0.05 | 0.13 | 0.9 | 1.85 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 2.15 |
| 1-0.3 | 0.3 | 0.3 | Area 2B | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 |
| 2-0.0 | 0 | 0.1 | Area 3 | 1/10/2019 | | | | 0.09 | <0.05 | <0.05 | 0.06 | <0.05 | 5.2 | <0.05 | <0.05 | 0.33 | 0.42 | 0.06 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 5.68 |
| QC01 (DUP 2-0.0) | 0 | 0.1 | Area 3 | 1/10/2019 | | | | 0.11 | <0.05 | <0.05 | <0.05 | <0.05 | 2.1 | <0.05 | 0.36 | 0.06 | 0.53 | <0.05 | 0.05 | <0.05 | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 2.73 |
| QC02 (TRIP 2-0.0) | 0 | 0.1 | Area 3 | 1/10/2019 | | | | 0.14 | <0.05 | <0.05 | <0.05 | <0.05 | 5.84 | <0.05 | <0.05 | 0.9 | 1.04 | <0.05 | <0.05 | <0.05 | <1.02 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.06 | <0.05 | <0.2 | - | 6.94 |
| 2-0.3 | 0.3 | 0.3 | Area 3 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.2 |
| QC03 (DUP 2-0.3) | 0.3 | 0.3 | Area 3 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 |
| QC04 (TRIP 2-0.3) | 0.3 | 0.3 | Area 3 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.23 | <0.05 | <0.05 | <0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | 0.23 |

**DVA Greenslopes Soil Data Table**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Sampled_Date | Asbestos | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Asbestos (ID) (ND - not detected) | ACM (w/w) | Asbestos Fines (w/w) | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endrin aldehyde | Endrin ketone | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Total OCP |
| Units | - | - | - | - | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EIL - Res/Open Space | | | - | | - | | - | | | | | | | | | 180 | | | | | | | | | | | | | | | | |
| HIL-A Residential | | | - | | - | 0.01% | 0.001% | | | | 6 | | 50 | | | | 240 | | | 270 | | | 10 | | 6 | | 10 | 300 | 20 | | |
| HIL-C Recreational | | | - | | - | 0.02% | 0.001% | | | | 10 | | 70 | | | | 400 | | | 340 | | | 20 | | 10 | | 10 | 400 | 30 | | |
| 3-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.9 | <0.05 | 0.27 | 0.59 | 0.91 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 2.81 |
| 3-0.35 | 0.35 | 0.35 | Area 2B | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 |
| 4-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | 0.31 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | 4.1 | 4.41 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 4.41 |
| 4-0.35 | 0.35 | 0.35 | Area 2B | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 |
| 5-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | 1.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | 1.5 | 5.4 | 8.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 8.2 |
| 5-0.35 | 0.35 | 0.35 | Area 2B | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 |
| 6-0.0 | 0 | 0.1 | Area 3 | 1/10/2019 | | | | 0.17 | <0.05 | <0.05 | 0.08 | <0.05 | 5.5 | <0.05 | 0.06 | <0.05 | 0.23 | 0.08 | 0.07 | <0.05 | <0.05 | <0.05 | <0.05 | 0.05 | <0.05 | 0.26 | 0.89 | <0.05 | <0.05 | <1 | 7.08 |
| 6-0.45 | 0.45 | 0.45 | Area 3 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.5 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.26 | <0.05 | <0.05 | <1 | 0.76 |
| 6P-0.0 (HA02) | 0 | 0.1 | Area 2B | 1/10/2019 | | | | 0.19 | <0.05 | <0.05 | <0.05 | <0.05 | 4.2 | <0.05 | 0.06 | 0.33 | 0.58 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 4.78 |
| 6P-0.3 (HA02) | 0.3 | 0.3 | Area 2B | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.3 |
| 7-0.0 | 0 | 0.1 | Area 3 | 1/10/2019 | | | | 0.26 | <0.05 | <0.05 | <0.05 | <0.05 | 16 | <0.05 | 0.08 | <0.05 | 0.34 | <0.05 | 0.24 | <0.05 | <0.05 | <0.05 | <0.05 | 0.12 | <0.05 | 1 | 3.4 | <0.05 | <0.05 | <1 | 21.1 |
| 7-0.45 | 0.45 | 0.45 | Area 3 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.4 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.18 | <0.05 | <0.05 | <1 | 0.58 |
| 7P-0.0 (HA03) | 0 | 0.1 | Area 3 | 1/10/2019 | | | | 0.15 | <0.05 | <0.05 | <0.05 | <0.05 | 2.3 | <0.05 | 0.05 | 0.17 | 0.37 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.09 | <0.05 | <0.05 | <1 | 2.76 |
| 7P-0.25 (HA03) | 0.25 | 0.25 | Area 3 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.4 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.4 |
| 8-0.0 | 0 | 0 | Area 1 | 1/10/2019 | | | | 0.1 | <0.05 | 0.56 | 23.56 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.1 | 23 | <0.05 | 0.12 | <0.05 | <0.05 | <0.05 | 0.23 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 24.01 |
| 8-0.42 | 0.42 | 0.42 | Area 1 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 1.3 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 1.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 1.3 |
| 9-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | 0.2 | <0.05 | 0.08 | 60.08 | <0.05 | 0.2 | <0.05 | <0.05 | <0.05 | 0.2 | 60 | <0.05 | 0.36 | <0.05 | <0.05 | <0.05 | 0.83 | <0.05 | <0.05 | 0.06 | <0.05 | <0.05 | <1 | 61.73 |
| 9-0.42 | 0.42 | 0.42 | Area 1 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 0.36 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.36 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.36 |
| 9P-0.0 (HA09) | 0 | 0.1 | Area 1 | 1/10/2019 | | | | 0.1 | <0.05 | <0.05 | 18 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.1 | 18 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 18.26 |
| 9P-0.45 (HA09) | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 0.13 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.13 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.13 |
| 10-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | 0.11 | <0.05 | 0.1 | 28.1 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.11 | 28 | <0.05 | 0.13 | <0.05 | <0.05 | <0.05 | 0.21 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 28.55 |
| 10-0.45 | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | 0.14 | <0.05 | 0.21 | 9.51 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.14 | 9.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.06 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 9.71 |
| 11-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | 0.34 | <0.05 | 0.06 | 36.06 | <0.05 | 0.1 | <0.05 | 0.18 | <0.05 | 0.52 | 36 | <0.05 | 0.31 | <0.05 | <0.05 | <0.05 | 0.73 | <0.05 | <0.05 | 0.18 | <0.05 | <0.05 | <1 | 37.9 |
| 11-0.45 | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | 0.22 | <0.05 | <0.05 | 14 | <0.05 | <0.1 | <0.05 | 0.15 | <0.05 | 0.37 | 14 | <0.05 | 0.05 | <0.05 | <0.05 | <0.05 | 0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 14.52 |
| 12-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | 0.15 | <0.05 | 0.81 | 4.31 | <0.05 | <0.1 | <0.05 | 0.15 | 0.21 | 0.51 | 3.5 | <0.05 | 0.28 | <0.05 | <0.05 | <0.05 | 0.08 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 5.18 |
| 12-0.25 | 0.25 | 0.25 | Area 1 | 1/10/2019 | | | | <0.05 | <0.05 | 0.11 | 0.47 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.36 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.47 |
| 13P-0.0 (HA07) | 0 | 0.1 | Area 1 | 1/10/2019 | | | | 0.13 | <0.05 | <0.05 | 7.5 | <0.05 | <0.1 | <0.05 | 0.11 | 0.08 | 0.32 | 7.5 | <0.05 | 0.17 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 7.99 |
| 13P-0.2 (HA07) | 0.2 | 0.2 | Area 1 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 10 | <0.05 | <0.1 | <0.05 | <0.05 | 0.05 | 0.05 | 10 | <0.05 | 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 10.21 |
| 14-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 0.07 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.07 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.07 |
| 14-0.45 | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 |
| 14P-0.0 (HA10) | 0 | 0.1 | Area 1 | 1/10/2019 | | | | 0.12 | <0.05 | 1.1 | 61.1 | <0.05 | 0.1 | <0.05 | <0.05 | <0.05 | 0.12 | 60 | <0.05 | 0.58 | <0.05 | <0.05 | <0.05 | 0.62 | <0.05 | <0.05 | 0.09 | <0.05 | <0.05 | <1 | 62.61 |
| QC07 (DUP 14P-0.0 ) | 0 | 0.1 | Area 1 | 1/10/2019 | | | | 0.24 | <0.05 | 1.9 | 75.9 | <0.05 | 0.3 | <0.05 | 0.05 | <0.05 | 0.29 | 74 | <0.05 | 1.2 | <0.05 | <0.05 | <0.05 | 1.2 | <0.05 | 0.06 | 0.22 | <0.05 | <0.05 | <1 | 79.17 |
| QC08 (TRIP 14P-0.0 ) | 0 | 0.1 | Area 1 | 1/10/2019 | | | | <0.05 | <0.05 | 2.32 | 109 | <0.05 | 0.37 | <0.05 | <0.05 | <0.2 | <0.05 | 107 | <0.05 | 1.4 | <0.05 | <0.05 | <0.05 | 1.47 | <0.05 | 0.16 | 0.22 | <0.05 | <0.2 | - | 112.94 |
| 14P-0.42 (HA10) | 0.42 | 0.42 | Area 1 | 1/10/2019 | | | | <0.05 | <0.05 | 0.06 | 3.86 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 3.8 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 3.86 |
| QC09 (DUP 14P-0.42) | 0 | 0.1 | Area 2B | 1/10/2019 | | | | <0.05 | <0.05 | 0.06 | 5.06 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 5 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 5.06 |
| QC10 (TRIP 14P-0.42) | 0 | 0.1 | Area 2B | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 3.08 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 | 3.08 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | 3.08 |
| 15-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | <0.05 | <0.05 | 0.09 | 8.29 | <0.05 | 7.4 | <0.05 | <0.05 | <0.05 | <0.05 | 8.2 | 0.13 | 0.09 | 0.26 | <0.05 | <0.05 | 0.09 | <0.05 | 0.19 | 0.38 | <0.05 | <0.05 | <1 | 16.83 |
| 16-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.11 | <0.05 | <0.05 | <1 | 1.41 |
| 16-0.45 | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 |
| 17-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | 0.18 | <0.05 | <0.05 | 0.62 | <0.05 | <0.1 | <0.05 | <0.05 | 0.18 | 0.36 | 0.62 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.98 |
| 17-0.25 | 0.25 | 0.25 | Area 2B | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 |
| 18-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | 2.2 | <0.05 | <0.05 | 0.61 | <0.05 | <0.1 | <0.05 | 0.35 | 3.8 | 6.35 | 0.61 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 6.96 |
| 18-0.2 | 0.2 | 0.2 | Area 2B | 1/10/2019 | | | | 0.11 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | 0.07 | 0.18 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.18 |

**DVA Greenslopes Soil Data Table**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Sampled_Date | Asbestos | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Asbestos (ID) (ND - not detected) | ACM (w/w) | Asbestos Fines (w/w) | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endrin aldehyde | Endrin ketone | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Total OCP |
| Units | - | - | - | - | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EIL - Res/Open Space | | | - | | - | | - | | | | | | | | | 180 | | | | | | | | | | | | | | | | | |
| HIL-A Residential | | | - | | - | 0.01% | 0.001% | | | | 6 | | 50 | | | | 240 | | | 270 | | | 10 | | 6 | | 10 | 300 | 20 | |
| HIL-C Recreational | | | - | | - | 0.02% | 0.001% | | | | 10 | | 70 | | | | 400 | | | 340 | | | 20 | | 10 | | 10 | 400 | 30 | |
| 32-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | 1.4 | <0.05 | <0.05 | 0.3 | <0.05 | 0.1 | <0.05 | 2.1 | 23 | 26.5 | 0.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 26.9 |
| 34-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | 1 | <0.05 | 0.49 | 17.49 | <0.05 | <0.1 | <0.05 | 0.15 | 0.51 | 1.66 | 17 | <0.05 | 0.22 | <0.05 | <0.05 | <0.05 | 0.18 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 19.55 |
| 36-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | 0.07 | <0.05 | <0.05 | 20 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.07 | 20 | <0.05 | 0.12 | <0.05 | <0.05 | <0.05 | 0.11 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 20.3 |
| BH01_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | | | | 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.16 |
| BH02_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH03_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | | | | 0.39 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | 0.06 | 0.31 | 0.76 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.76 |
| BH04_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH05_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH06_0.1 | 0.1 | 0.1 | Area 4B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH06_0.3 | 0.3 | 0.3 | Area 4B | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH06_0.5 | 0.5 | 0.5 | Area 4B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH07_0.1 | 0.1 | 0.1 | Area 4B | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH07_0.3 | 0.3 | 0.3 | Area 4B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH08_0.1 | 0.1 | 0.1 | Area 4B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH08_0.3 | 0.3 | 0.3 | Area 1 | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH12_0.1 | 0.1 | 0.1 | Area 2B | 3/09/2021 | ND | | | 0.47 | <0.05 | <0.05 | 0.21 | <0.05 | 0.2 | <0.05 | 0.34 | 18 | 18.81 | 0.21 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 19.22 |
| BH13_0.1 | 0.1 | 0.1 | Area 1 | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | 0.1 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.1 |
| BH14_0.1 | 0.1 | 0.1 | Area 1 | 3/09/2021 | ND | | | <0.05 | <0.05 | 0.15 | 9.15 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 9 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 9.15 |
| BH14_0.3 | 0.3 | 0.3 | Area 1 | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | 0.91 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.91 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.91 |
| BH14_0.5 | 0.5 | 0.5 | Area 1 | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | 0.24 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.24 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.24 |
| BH15_0.1 | 0.1 | 0.1 | Area 1 | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | 0.05 | 0.05 | <0.05 | <0.05 | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.1 |
| BH15_0.3 | 0.3 | 0.3 | Area 1 | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH15_0.5 | 0.5 | 0.5 | Area 1 | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH16_0.1 | 0.1 | 0.1 | Area 4B | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH16_0.3 | 0.3 | 0.3 | Area 4B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH16_0.5 | 0.5 | 0.5 | Area 4B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH17_0.1 | 0.1 | 0.1 | Area 2B | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH17_0.3 | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| QC09_210903 (DUP BH17_0.3) | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| QC10_210903 (TRIP BH17_0.3) | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | | <0.1 |
| BH17_0.5 | 0.5 | 0.5 | Area 2B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH18_0.1 | 0.1 | 0.1 | Area 2B | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH18_0.3 | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH18_0.5 | 0.5 | 0.5 | Area 2B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH19_0.1 | 0.1 | 0.1 | Area 2B | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH19_0.3 | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| QC01_210903 (DUP BH19_0.3) | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| QC02_210903 (TRIP BH19_0.3) | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | | <0.1 |
| BH19_0.5 | 0.5 | 0.5 | Area 2B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH20_0.1 | 0.1 | 0.1 | Area 2A | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH20_0.3 | 0.3 | 0.3 | Area 2A | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH20_0.5 | 0.5 | 0.5 | Area 2A | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH21_0.1 | 0.1 | 0.1 | Area 1 | 3/09/2021 | | | | <0.05 | <0.05 | 98 | 103.2 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 5.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 103.2 |

**DVA Greenslopes Soil Data Table**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Sampled_Date | Asbestos | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Asbestos (ID) (ND - not detected) | ACM (w/w) | Asbestos Fines (w/w) | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endrin aldehyde | Endrin ketone | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Total OCP |
| Units | - | - | - | - | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EIL - Res/Open Space | | | - | | - | | - | | | | | | | | | 180 | | | | | | | | | | | | | | | | |
| HIL-A Residential | | | - | | - | 0.01% | 0.001% | | | | 6 | | 50 | | | | 240 | | | 270 | | | 10 | | 6 | | 10 | 300 | 20 | | |
| HIL-C Recreational | | | - | | - | 0.02% | 0.001% | | | | 10 | | 70 | | | | 400 | | | 340 | | | 20 | | 10 | | 10 | 400 | 30 | | |
| BH21_0.3 | 0.3 | 0.3 | Area 1 | 3/09/2021 | | | | 0.07 | <0.05 | 0.98 | 1.41 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.07 | 0.43 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 1.48 |
| BH21_0.5 | 0.5 | 0.5 | Area 1 | 3/09/2021 | | | | <0.05 | <0.05 | 0.12 | 0.12 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.12 |
| MW01 - 0.1 | 0.1 | 0.1 | Area 2A | 17/11/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| MW01 - 0.25 | 0.25 | 0.25 | Area 2A | 17/11/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| MW01 - 0.50 | 0.5 | 0.5 | Area 2A | 17/11/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| MW01_0.75 | 0.75 | 0.75 | Area 2A | 17/11/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW01_1.0 | 1 | 1 | Area 2A | 17/11/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SLAG-1 | SLAG-1 | SLAG-1 | SLAG | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SLAG-2 | SLAG-2 | SLAG-2 | SLAG | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH01_CONCRETE | CONCRETE | CONCRETE | Area 4A | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH03_CONCRETE | CONCRETE | CONCRETE | Area 4A | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH05_CONCRETE | CONCRETE | CONCRETE | Area 4A | 3/09/2021 | | | | 1.6 | <0.05 | <0.05 | 0.13 | <0.05 | <0.1 | <0.05 | 0.28 | 0.33 | 2.21 | 0.13 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 2.34 |
| BH06_CONCRETE | CONCRETE | CONCRETE | Area 4B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH07_CONCRETE | CONCRETE | CONCRETE | Area 4B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH08_CONCRETE | CONCRETE | CONCRETE | Area 4B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH09_CONCRETE | CONCRETE | CONCRETE | Area 1 | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH10_CONCRETE | CONCRETE | CONCRETE | Area 1 | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH11_CONCRETE | CONCRETE | CONCRETE | Area 1 | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH21_CONCRETE | CONCRETE | CONCRETE | Area 1 | 3/09/2021 | | | | <0.05 | <0.05 | 0.38 | 0.73 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.35 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.73 |

**DVA Greenslopes Soil Data Table**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Sampled_Date | Organophosphate Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Azinophos methyl | Bolstar (Sulprofos) | Chlorfenvinphos | Chlorpyrifos | Chlorpyrifos-methyl | Coumaphos | Demeton-O | Demeton-S | Diazinon | Dichlorvos | Dimethoate | Disulfoton | EPN | Ethion | Ethoprop | Ethyl parathion | Fenitrothion | Fensulfothion | Fenthion | Malathion | Merphos | Methyl parathion | Mevinphos (Phosdrin) | Monocrotophos | Naled (Dibrom) | Omethoate | Phorate | Pirimphos-methyl | Pyrazophos | Ronnel | Terbufos | Tetrachlorvinphos | Trichloronate | Tokuthion |
| Units | - | - | - | - | mg/kg | mg/kg | | mg/kg | | | mg/kg | | mg/kg | mg/kg | | mg/kg | | mg/kg | mg/kg | | mg/kg | mg/kg | mg/kg | | mg/kg | mg/kg | mg/kg | | mg/kg | | mg/kg | | | mg/kg | | | mg/kg | mg/kg |
| EIL - Res/Open Space | | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HIL-A Residential | | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HIL-C Recreational | | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SS01 | 0 | 0.1 | Area 2B | 16/07/2013 | <0.2 | <0.2 | | <0.2 | | | <0.2 | | <0.2 | <0.2 | | <0.2 | | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 | | <0.5 | | <0.2 | | | <0.2 | | | <0.2 | <0.2 |
| SS02 | 0 | 0.1 | Area 1 | 16/07/2013 | <0.2 | <0.2 | | <0.2 | | | <0.2 | | <0.2 | <0.2 | | <0.2 | | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 | | <0.5 | | <0.2 | | | <0.2 | | | <0.2 | <0.2 |
| SS03 | 0 | 0.1 | Area 2A | 16/07/2013 | <0.2 | <0.2 | | <0.2 | | | <0.2 | | <0.2 | <0.2 | | <0.2 | | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 | | <0.5 | | <0.2 | | | <0.2 | | | <0.2 | <0.2 |
| SS04 | 0 | 0.1 | Area 2A | 16/07/2013 | <0.2 | <0.2 | | <0.2 | | | <0.2 | | <0.2 | <0.2 | | <0.2 | | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 | | <0.5 | | <0.2 | | | <0.2 | | | <0.2 | <0.2 |
| SA01/A01 | 0 | 0.1 | Area 2A | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA02/A02 | 0 | 0.1 | Area 2A | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA03/A03 | 0 | 0.1 | Area 2A | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA04/A04 | 0 | 0.1 | Area 2A | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA05/A05 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0.3 | 0.4 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA07/A07 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA08/A08 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA09/A09 | 0 | 0.1 | Area 1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA10/A10 | 0 | 0.1 | Area 1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA11/A11 | 0 | 0.1 | Area 1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA13/A13 | 0 | 0.1 | Area 1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Main Hall (under building) | 0 | 0 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accomodation Building (under building) | 0 | 0 | Area 1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unsealed External Areas | 0 | 0.01 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A01, A04, A10 | 0.15 | 0.15 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A06, A10 | 0.15 | 0.15 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA01 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA02 | 0 | 0.1 | Area 3 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA03 | 0 | 0.1 | Area 3 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA04 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA05 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC01 (DUP HA05) | 0 | 0.1 | Area 2B | 26/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC01A (TRIP HA05) | 0 | 0.1 | Area 2B | 26/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA06/SA11 | 0 | 0.1 | Area 2A | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA07/SA12 | 0 | 0.1 | Area 1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA08/SA13 | 0 | 0.1 | Area 1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA09 | 0 | 0.2 | Area 1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA10 | 0 | 0.2 | Area 1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA11 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1-0.3 | 0.3 | 0.3 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-0.0 | 0 | 0.1 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC01 (DUP 2-0.0) | 0 | 0.1 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC02 (TRIP 2-0.0) | 0 | 0.1 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-0.3 | 0.3 | 0.3 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC03 (DUP 2-0.3) | 0.3 | 0.3 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC04 (TRIP 2-0.3) | 0.3 | 0.3 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Sampled_Date | Organophosphate Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Azinophos methyl | Bolstar (Sulprofos) | Chlorfenvinphos | Chlorpyrifos | Chlorpyrifos-methyl | Coumaphos | Demeton-O | Demeton-S | Diazinon | Dichlorvos | Dimethoate | Disulfoton | EPN | Ethion | Ethoprop | Ethyl parathion | Fenitrothion | Fensulfothion | Fenthion | Malathion | Merphos | Methyl parathion | Mevinphos (Phosdrin) | Monocrotophos | Naled (Dibrom) | Omethoate | Phorate | Pirimphos-methyl | Pyrazophos | Ronnel | Terbufos | Tetrachlorvinphos | Trichloronate | Tokuthion |
| Units | - | - | - | - | mg/kg | mg/kg | | mg/kg | | | mg/kg | | mg/kg | mg/kg | | mg/kg | | mg/kg | mg/kg | | mg/kg | mg/kg | mg/kg | | mg/kg | mg/kg | mg/kg | | mg/kg | | mg/kg | | | mg/kg | | | mg/kg | mg/kg |
| EIL - Res/Open Space | | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HIL-A Residential | | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HIL-C Recreational | | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3-0.35 | 0.35 | 0.35 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4-0.35 | 0.35 | 0.35 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5-0.35 | 0.35 | 0.35 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6-0.0 | 0 | 0.1 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6-0.45 | 0.45 | 0.45 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6P-0.0 (HA02) | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6P-0.3 (HA02) | 0.3 | 0.3 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7-0.0 | 0 | 0.1 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7-0.45 | 0.45 | 0.45 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7P-0.0 (HA03) | 0 | 0.1 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7P-0.25 (HA03) | 0.25 | 0.25 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8-0.0 | 0 | 0 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8-0.42 | 0.42 | 0.42 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9-0.42 | 0.42 | 0.42 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9P-0.0 (HA09) | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9P-0.45 (HA09) | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10-0.45 | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11-0.45 | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12-0.25 | 0.25 | 0.25 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13P-0.0 (HA07) | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13P-0.2 (HA07) | 0.2 | 0.2 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14-0.45 | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14P-0.0 (HA10) | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC07 (DUP 14P-0.0 ) | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC08 (TRIP 14P-0.0 ) | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14P-0.42 (HA10) | 0.42 | 0.42 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC09 (DUP 14P-0.42) | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC10 (TRIP 14P-0.42) | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16-0.45 | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17-0.25 | 0.25 | 0.25 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18-0.2 | 0.2 | 0.2 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Sampled_Date | Organophosphate Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Azinophos methyl | Bolstar (Sulprofos) | Chlorfenvinphos | Chlorpyrifos | Chlorpyrifos-methyl | Coumaphos | Demeton-O | Demeton-S | Diazinon | Dichlorvos | Dimethoate | Disulfoton | EPN | Ethion | Ethoprop | Ethyl parathion | Fenitrothion | Fensulfothion | Fenthion | Malathion | Merphos | Methyl parathion | Mevinphos (Phosdrin) | Monocrotophos | Naled (Dibrom) | Omethoate | Phorate | Pirimphos-methyl | Pyrazophos | Ronnel | Terbufos | Tetrachlorvinphos | Trichloronate | Tokuthion |
| Units | - | - | - | - | mg/kg | mg/kg | | mg/kg | | | mg/kg | | mg/kg | mg/kg | | mg/kg | | mg/kg | mg/kg | | mg/kg | mg/kg | mg/kg | | mg/kg | mg/kg | mg/kg | | mg/kg | | mg/kg | | | mg/kg | | | mg/kg | mg/kg |
| EIL - Res/Open Space | | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HIL-A Residential | | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HIL-C Recreational | | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 34-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH01_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH02_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH03_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH04_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH05_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH06_0.1 | 0.1 | 0.1 | Area 4B | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH06_0.3 | 0.3 | 0.3 | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH06_0.5 | 0.5 | 0.5 | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH07_0.1 | 0.1 | 0.1 | Area 4B | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH07_0.3 | 0.3 | 0.3 | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH08_0.1 | 0.1 | 0.1 | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH08_0.3 | 0.3 | 0.3 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH12_0.1 | 0.1 | 0.1 | Area 2B | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH13_0.1 | 0.1 | 0.1 | Area 1 | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH14_0.1 | 0.1 | 0.1 | Area 1 | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH14_0.3 | 0.3 | 0.3 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH14_0.5 | 0.5 | 0.5 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH15_0.1 | 0.1 | 0.1 | Area 1 | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH15_0.3 | 0.3 | 0.3 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH15_0.5 | 0.5 | 0.5 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH16_0.1 | 0.1 | 0.1 | Area 4B | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH16_0.3 | 0.3 | 0.3 | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH16_0.5 | 0.5 | 0.5 | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH17_0.1 | 0.1 | 0.1 | Area 2B | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH17_0.3 | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC09_210903 (DUP BH17_0.3) | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC10_210903 (TRIP BH17_0.3) | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH17_0.5 | 0.5 | 0.5 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH18_0.1 | 0.1 | 0.1 | Area 2B | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH18_0.3 | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH18_0.5 | 0.5 | 0.5 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH19_0.1 | 0.1 | 0.1 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH19_0.3 | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC01_210903 (DUP BH19_0.3) | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC02_210903 (TRIP BH19_0.3) | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH19_0.5 | 0.5 | 0.5 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH20_0.1 | 0.1 | 0.1 | Area 2A | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH20_0.3 | 0.3 | 0.3 | Area 2A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH20_0.5 | 0.5 | 0.5 | Area 2A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH21_0.1 | 0.1 | 0.1 | Area 1 | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |

**DVA Greenslopes Soil Data Table**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Sampled_Date | Organophosphate Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Azinophos methyl | Bolstar (Sulprofos) | Chlorfenvinphos | Chlorpyrifos | Chlorpyrifos-methyl | Coumaphos | Demeton-O | Demeton-S | Diazinon | Dichlorvos | Dimethoate | Disulfoton | EPN | Ethion | Ethoprop | Ethyl parathion | Fenitrothion | Fensulfothion | Fenthion | Malathion | Merphos | Methyl parathion | Mevinphos (Phosdrin) | Monocrotophos | Naled (Dibrom) | Omethoate | Phorate | Pirimphos-methyl | Pyrazophos | Ronnel | Terbufos | Tetrachlorvinphos | Trichloronate | Tokuthion |
| Units | - | - | - | - | mg/kg | mg/kg | | mg/kg | | | mg/kg | | mg/kg | mg/kg | | mg/kg | | mg/kg | mg/kg | | mg/kg | mg/kg | mg/kg | | mg/kg | mg/kg | mg/kg | | mg/kg | | mg/kg | | | mg/kg | | | mg/kg | mg/kg |
| EIL - Res/Open Space | | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HIL-A Residential | | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HIL-C Recreational | | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH21_0.3 | 0.3 | 0.3 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH21_0.5 | 0.5 | 0.5 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW01 - 0.1 | 0.1 | 0.1 | Area 2A | 17/11/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW01 - 0.25 | 0.25 | 0.25 | Area 2A | 17/11/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW01 - 0.50 | 0.5 | 0.5 | Area 2A | 17/11/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW01_0.75 | 0.75 | 0.75 | Area 2A | 17/11/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW01_1.0 | 1 | 1 | Area 2A | 17/11/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SLAG-1 | SLAG-1 | SLAG-1 | SLAG | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SLAG-2 | SLAG-2 | SLAG-2 | SLAG | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH01_CONCRETE | CONCRETE | CONCRETE | Area 4A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH03_CONCRETE | CONCRETE | CONCRETE | Area 4A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH05_CONCRETE | CONCRETE | CONCRETE | Area 4A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH06_CONCRETE | CONCRETE | CONCRETE | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH07_CONCRETE | CONCRETE | CONCRETE | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH08_CONCRETE | CONCRETE | CONCRETE | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH09_CONCRETE | CONCRETE | CONCRETE | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH10_CONCRETE | CONCRETE | CONCRETE | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH11_CONCRETE | CONCRETE | CONCRETE | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH21_CONCRETE | CONCRETE | CONCRETE | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**DVA Greenslopes Soil Data Table**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Sampled_Date | Polyaromatic Hydrocarbons (PAH) | | | | | | | | | | | | | | | | | | | | Metals | | | | | | | | | TRH | | | | BTEX | | | | | | | Other | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(b+j)fluoranthene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | PAHs (Sum of total) | Phenanthrene | Pyrene | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc | Chromium (hexavalent) | C6-C10 | C10-C16 | C16-C34 | C34-C40 | Benzene | Toluene | Ethyl benzene | Xylene (m & p) | Xylene (o) | Xylenes | Total BTEX | CEC | pH |
| Units | - | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | 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 | | |
| EIL - Res/Open Space | | | - | | | | | | | | | | 0.7 | | | | | | | | 170 | | | | 100 | | 245 | 196 | 1112 | | 287 | 420 | | 180 | 120 | 300 | 2800 | | | | | | | | | |
| HIL-A Residential | | | - | | 3 | 3 | 3 | | | | | | | | | | | | | | | 300 | | | 100 | 20 | 100 | 6000 | 300 | 10 | 400 | 7400 | 100 | 45 | 110 | 2500 | 10000 | | | | | | | | | |
| HIL-C Recreational | | | - | | 3 | 3 | 3 | | | | | | | | | | | | | | | 300 | | | 300 | 90 | 300 | 17000 | 600 | 13 | 1200 | 30000 | 300 | NL | NL | 2500 | 10000 | | | | | | | | | |
| SS01 | 0 | 0.1 | Area 2B | 16/07/2013 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 32 | 0.7 | 54 | 21 | 39 | <0.1 | 35 | 760 | | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | | | |
| SS02 | 0 | 0.1 | Area 1 | 16/07/2013 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 10 | 1.4 | 12 | 27 | 100 | <0.1 | 8.4 | 2000 | | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | | | |
| SS03 | 0 | 0.1 | Area 2A | 16/07/2013 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 16 | 0.4 | 42 | 20 | 75 | <0.1 | 18 | 190 | | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | | | |
| SS04 | 0 | 0.1 | Area 2A | 16/07/2013 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 10 | 0.6 | 22 | 33 | 72 | <0.1 | 11 | 250 | | <20 | <50 | 260 | <100 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | | | |
| SA01/A01 | 0 | 0.1 | Area 2A | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA02/A02 | 0 | 0.1 | Area 2A | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA03/A03 | 0 | 0.1 | Area 2A | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA04/A04 | 0 | 0.1 | Area 2A | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA05/A05 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0.3 | 0.4 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA07/A07 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA08/A08 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA09/A09 | 0 | 0.1 | Area 1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA10/A10 | 0 | 0.1 | Area 1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA11/A11 | 0 | 0.1 | Area 1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA13/A13 | 0 | 0.1 | Area 1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Main Hall (under building) | 0 | 0 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accomodation Building (under building) | 0 | 0 | Area 1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unsealed External Areas | 0 | 0.01 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A01, A04, A10 | 0.15 | 0.15 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A06, A10 | 0.15 | 0.15 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA01 | 0 | 0.1 | Area 2B | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9.3 | < 0.4 | 39 | 8.1 | 7.3 | < 0.1 | 20 | 64 | | | | | | | | | | | | | | | |
| HA02 | 0 | 0.1 | Area 3 | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 14 | < 0.4 | 44 | 6.4 | 15 | < 0.1 | 24 | 44 | | | | | | | | | | | | | | | |
| HA03 | 0 | 0.1 | Area 3 | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 20 | < 0.4 | 69 | 12 | 27 | < 0.1 | 25 | 92 | | | | | | | | | | | | | | | |
| HA04 | 0 | 0.1 | Area 2B | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 14 | < 0.4 | 54 | 11 | 14 | < 0.1 | 16 | 26 | | | | | | | | | | | | | | | |
| HA05 | 0 | 0.1 | Area 2B | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 17 | < 0.4 | 66 | 9.2 | 10 | < 0.1 | 19 | 45 | | | | | | | | | | | | | | | |
| QC01 (DUP HA05) | 0 | 0.1 | Area 2B | 26/09/2013 | | | | | | | | | | | | | | | | | | | | | 21 | < 0.4 | 73 | 10 | 16 | < 0.1 | 20 | 54 | | | | | | | | | | | | | | | |
| QC01A (TRIP HA05) | 0 | 0.1 | Area 2B | 26/09/2013 | | | | | | | | | | | | | | | | | | | | | 11 | < 0.4 | 90 | 12 | 20 | < 0.1 | 27 | 74 | | | | | | | | | | | | | | | |
| HA06/SA11 | 0 | 0.1 | Area 2A | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 22 | < 0.4 | 88 | 9.3 | 13 | < 0.1 | 19 | 41 | | | | | | | | | | | | | | | |
| HA07/SA12 | 0 | 0.1 | Area 1 | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 15 | < 0.4 | 43 | 13 | 63 | < 0.1 | 15 | 140 | | | | | | | | | | | | | | 30 | 5.8 |
| HA08/SA13 | 0 | 0.1 | Area 1 | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 10 | < 0.4 | 39 | 14 | 50 | < 0.1 | 11 | 72 | | | | | | | | | | | | | | | |
| HA09 | 0 | 0.2 | Area 1 | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 10 | < 0.4 | 25 | 24 | 120 | 0.1 | 8.8 | 380 | | | | | | | | | | | | | | | |
| HA10 | 0 | 0.2 | Area 1 | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 19 | < 0.4 | 22 | 19 | 120 | < 0.1 | 8.7 | 330 | | | | | | | | | | | | | | | |
| HA11 | 0 | 0.1 | Area 2B | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 23 | < 0.4 | 50 | 15 | 140 | < 0.1 | 13 | 450 | | | | | | | | | | | | | | 25 | 6.3 |
| 1-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 1-0.3 | 0.3 | 0.3 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-0.0 | 0 | 0.1 | Area 3 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| QC01 (DUP 2-0.0) | 0 | 0.1 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC02 (TRIP 2-0.0) | 0 | 0.1 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-0.3 | 0.3 | 0.3 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC03 (DUP 2-0.3) | 0.3 | 0.3 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC04 (TRIP 2-0.3) | 0.3 | 0.3 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**DVA Greenslopes Soil Data Table**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Sampled_Date | Polyaromatic Hydrocarbons (PAH) | | | | | | | | | | | | | | | | | | | | Metals | | | | | | | | | TRH | | | | BTEX | | | | | | | Other | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(b+j)fluoranthene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | PAHs (Sum of total) | Phenanthrene | Pyrene | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc | Chromium (hexavalent) | C6-C10 | C10-C16 | C16-C34 | C34-C40 | Benzene | Toluene | Ethyl benzene | Xylene (m & p) | Xylene (o) | Xylenes | Total BTEX | CEC | pH |
| Units | - | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | 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 | | |
| EIL - Res/Open Space | | | - | | | | | | | | | | 0.7 | | | | | | | | 170 | | | | 100 | | 245 | 196 | 1112 | | 287 | 420 | | 180 | 120 | 300 | 2800 | | | | | | | | | |
| HIL-A Residential | | | - | | 3 | 3 | 3 | | | | | | | | | | | | | | | 300 | | | 100 | 20 | 100 | 6000 | 300 | 10 | 400 | 7400 | 100 | 45 | 110 | 2500 | 10000 | | | | | | | | | |
| HIL-C Recreational | | | - | | 3 | 3 | 3 | | | | | | | | | | | | | | | 300 | | | 300 | 90 | 300 | 17000 | 600 | 13 | 1200 | 30000 | 300 | NL | NL | 2500 | 10000 | | | | | | | | | |
| 3-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 3-0.35 | 0.35 | 0.35 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 4-0.35 | 0.35 | 0.35 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 5-0.35 | 0.35 | 0.35 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6-0.0 | 0 | 0.1 | Area 3 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 6-0.45 | 0.45 | 0.45 | Area 3 | 1/10/2019 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 2.1 | <0.4 | <5 | 11 | 32 | <0.1 | 5.8 | 72 | | | | | | | | | | | | | | | |
| 6P-0.0 (HA02) | 0 | 0.1 | Area 2B | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 6P-0.3 (HA02) | 0.3 | 0.3 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7-0.0 | 0 | 0.1 | Area 3 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 7-0.45 | 0.45 | 0.45 | Area 3 | 1/10/2019 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 2.6 | <0.4 | <5 | 12 | 19 | <0.1 | 5.8 | 51 | | | | | | | | | | | | | | | |
| 7P-0.0 (HA03) | 0 | 0.1 | Area 3 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 7P-0.25 (HA03) | 0.25 | 0.25 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8-0.0 | 0 | 0 | Area 1 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 8-0.42 | 0.42 | 0.42 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 9-0.42 | 0.42 | 0.42 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9P-0.0 (HA09) | 0 | 0.1 | Area 1 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 9P-0.45 (HA09) | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 10-0.45 | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 11-0.45 | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 12-0.25 | 0.25 | 0.25 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13P-0.0 (HA07) | 0 | 0.1 | Area 1 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 13P-0.2 (HA07) | 0.2 | 0.2 | Area 1 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 14-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 14-0.45 | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14P-0.0 (HA10) | 0 | 0.1 | Area 1 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| QC07 (DUP 14P-0.0 ) | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC08 (TRIP 14P-0.0 ) | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14P-0.42 (HA10) | 0.42 | 0.42 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC09 (DUP 14P-0.42) | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC10 (TRIP 14P-0.42) | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 16-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 16-0.45 | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 17-0.25 | 0.25 | 0.25 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 18-0.2 | 0.2 | 0.2 | Area 2B | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |

**DVA Greenslopes Soil Data Table**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Sampled_Date | Polyaromatic Hydrocarbons (PAH) | | | | | | | | | | | | | | | | | | | | Metals | | | | | | | | | TRH | | | | BTEX | | | | | | | Other | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(b+j)fluoranthene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | PAHs (Sum of total) | Phenanthrene | Pyrene | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc | Chromium (hexavalent) | C6-C10 | C10-C16 | C16-C34 | C34-C40 | Benzene | Toluene | Ethyl benzene | Xylene (m & p) | Xylene (o) | Xylenes | Total BTEX | CEC | pH |
| Units | - | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | 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 | | |
| EIL - Res/Open Space | | | - | | | | | | | | | | 0.7 | | | | | | | | 170 | | | | 100 | | 245 | 196 | 1112 | | 287 | 420 | | 180 | 120 | 300 | 2800 | | | | | | | | | |
| HIL-A Residential | | | - | | 3 | 3 | 3 | | | | | | | | | | | | | | | 300 | | | 100 | 20 | 100 | 6000 | 300 | 10 | 400 | 7400 | 100 | 45 | 110 | 2500 | 10000 | | | | | | | | | |
| HIL-C Recreational | | | - | | 3 | 3 | 3 | | | | | | | | | | | | | | | 300 | | | 300 | 90 | 300 | 17000 | 600 | 13 | 1200 | 30000 | 300 | NL | NL | 2500 | 10000 | | | | | | | | | |
| 32-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 34-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 36-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| BH01_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | <2 | <0.4 | 45 | 6.1 | 5.6 | <0.1 | 22 | 22 | | | | | | | | | | | | | | | |
| BH02_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | <2 | <0.4 | 37 | <5 | <5 | <0.1 | 18 | 16 | | | | | | | | | | | | | | | |
| BH03_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 6.5 | <0.4 | 70 | 6.6 | 40 | <0.1 | 22 | 29 | | | | | | | | | | | | | | | |
| BH04_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 3.4 | <0.4 | 49 | <5 | <5 | <0.1 | 9.2 | 16 | | | | | | | | | | | | | | | |
| BH05_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 12 | <0.4 | 75 | 7.1 | 5.5 | <0.1 | 14 | 19 | | | | | | | | | | | | | | | |
| BH06_0.1 | 0.1 | 0.1 | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 4.6 | <0.4 | 5.6 | 6.4 | 6.6 | <0.1 | <5 | 19 | | | | | | | | | | | | | | | |
| BH06_0.3 | 0.3 | 0.3 | Area 4B | 3/09/2021 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 5.7 | <0.4 | 13 | 5.9 | 11 | <0.1 | <5 | 24 | | | | | | | | | | | | | | | |
| BH06_0.5 | 0.5 | 0.5 | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 8.8 | <0.4 | 150 | 21 | <5 | <0.1 | 45 | 27 | | | | | | | | | | | | | | | |
| BH07_0.1 | 0.1 | 0.1 | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 7 | <0.4 | 5.6 | 7.4 | 6.6 | <0.1 | <5 | 19 | | | | | | | | | | | | | | | |
| BH07_0.3 | 0.3 | 0.3 | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 8.7 | <0.4 | 170 | 10 | 6.7 | <0.1 | 30 | 32 | | | | | | | | | | | | | | | |
| BH08_0.1 | 0.1 | 0.1 | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 4.6 | <0.4 | 100 | 6.7 | <5 | <0.1 | 15 | 14 | | | | | | | | | | | | | | | |
| BH08_0.3 | 0.3 | 0.3 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 3.7 | <0.4 | 110 | 11 | <5 | <0.1 | 26 | 20 | | | | | | | | | | | | | | | |
| BH12_0.1 | 0.1 | 0.1 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 6.4 | 0.9 | 79 | 21 | 54 | <0.1 | 66 | 160 | | | | | | | | | | | | | | | |
| BH13_0.1 | 0.1 | 0.1 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 10 | 0.5 | 73 | 30 | 110 | <0.1 | 25 | 250 | | | | | | | | | | | | | | | |
| BH14_0.1 | 0.1 | 0.1 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 7.7 | <0.4 | 16 | 13 | 120 | <0.1 | 6.9 | 210 | | | | | | | | | | | | | | | |
| BH14_0.3 | 0.3 | 0.3 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 6.1 | <0.4 | 6.7 | 7.8 | 33 | <0.1 | <5 | 48 | | | | | | | | | | | | | | | |
| BH14_0.5 | 0.5 | 0.5 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 2.1 | <0.4 | 59 | 6.7 | 6.7 | <0.1 | 17 | 20 | | | | | | | | | | | | | | | |
| BH15_0.1 | 0.1 | 0.1 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 7.3 | <0.4 | 32 | 25 | 160 | <0.1 | 13 | 250 | | | | | | | | | | | | | | | |
| BH15_0.3 | 0.3 | 0.3 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 6.7 | <0.4 | 67 | 8.6 | 9.8 | <0.1 | 14 | 26 | | | | | | | | | | | | | | | |
| BH15_0.5 | 0.5 | 0.5 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 6.8 | <0.4 | 66 | 11 | <5 | <0.1 | 15 | 18 | | | | | | | | | | | | | | | |
| BH16_0.1 | 0.1 | 0.1 | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 19 | <0.4 | 30 | 20 | 160 | <0.1 | 9.5 | 320 | | | | | | | | | | | | | | | |
| BH16_0.3 | 0.3 | 0.3 | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 11 | <0.4 | 79 | 12 | 47 | <0.1 | 21 | 53 | | | | | | | | | | | | | | | |
| BH16_0.5 | 0.5 | 0.5 | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 12 | <0.4 | 150 | 20 | 9.7 | <0.1 | 45 | 43 | | | | | | | | | | | | | | | |
| BH17_0.1 | 0.1 | 0.1 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 4.1 | <0.4 | 45 | 20 | 65 | <0.1 | 21 | 75 | | | | | | | | | | | | | | | |
| BH17_0.3 | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 3.1 | <0.4 | 8.9 | 23 | 75 | <0.1 | 5.1 | 130 | | | | | | | | | | | | | | | |
| QC09_210903 (DUP BH17_0.3) | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 4 | <0.4 | 8.9 | 15 | 78 | <0.1 | <5 | 120 | | | | | | | | | | | | | | | |
| QC10_210903 (TRIP BH17_0.3) | 0.3 | 0.3 | Area 2B | 3/09/2021 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | | <0.5 | <0.5 | <0.5 | <5 | <1 | 6 | 74 | 87 | <0.1 | 9 | 131 | | | | | | | | | | | | | | | |
| BH17_0.5 | 0.5 | 0.5 | Area 2B | 3/09/2021 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2 | <0.4 | <5 | 16 | 8 | <0.1 | <5 | 14 | | | | | | | | | | | | | | | |
| BH18_0.1 | 0.1 | 0.1 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 5 | <0.4 | 51 | 18 | 37 | <0.1 | 25 | 79 | | | | | | | | | | | | | | | |
| BH18_0.3 | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | <2 | <0.4 | 24 | 22 | 29 | <0.1 | 15 | 39 | | | | | | | | | | | | | | | |
| BH18_0.5 | 0.5 | 0.5 | Area 2B | 3/09/2021 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 23 | <0.4 | 39 | 14 | 27 | <0.1 | 14 | 31 | | | | | | | | | | | | | | | |
| BH19_0.1 | 0.1 | 0.1 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 5.5 | <0.4 | 21 | 19 | 76 | <0.1 | 9.4 | 97 | | | | | | | | | | | | | | | |
| BH19_0.3 | 0.3 | 0.3 | Area 2B | 3/09/2021 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 3.5 | <0.4 | 53 | 25 | 110 | <0.1 | 20 | 100 | | | | | | | | | | | | | | | |
| QC01_210903 (DUP BH19_0.3) | 0.3 | 0.3 | Area 2B | 3/09/2021 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 2.6 | <0.4 | 39 | 15 | 65 | <0.1 | 9.7 | 62 | | | | | | | | | | | | | | | |
| QC02_210903 (TRIP BH19_0.3) | 0.3 | 0.3 | Area 2B | 3/09/2021 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | | <0.5 | <0.5 | <0.5 | <5 | <1 | 16 | 14 | 86 | <0.1 | 8 | 64 | | | | | | | | | | | | | | | |
| BH19_0.5 | 0.5 | 0.5 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 2.2 | <0.4 | 73 | 7.6 | 11 | <0.1 | 14 | 21 | | | | | | | | | | | | | | | |
| BH20_0.1 | 0.1 | 0.1 | Area 2A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 3.3 | <0.4 | 48 | 32 | 68 | <0.1 | 9.9 | 88 | | | | | | | | | | | | | | | |
| BH20_0.3 | 0.3 | 0.3 | Area 2A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 3.4 | <0.4 | 72 | 20 | 20 | <0.1 | 22 | 39 | | | | | | | | | | | | | | | |
| BH20_0.5 | 0.5 | 0.5 | Area 2A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 3.2 | <0.4 | 100 | 18 | <5 | <0.1 | 41 | 27 | | | | | | | | | | | | | | | |
| BH21_0.1 | 0.1 | 0.1 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | <2 | <0.4 | 7.8 | <5 | 8.5 | <0.1 | <5 | 31 | | | | | | | | | | | | | | | |

**DVA Greenslopes Soil Data Table**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Sampled_Date | Polyaromatic Hydrocarbons (PAH) | | | | | | | | | | | | | | | | | | | | Metals | | | | | | | | | TRH | | | | BTEX | | | | | | | Other | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(b+j)fluoranthene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | PAHs (Sum of total) | Phenanthrene | Pyrene | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc | Chromium (hexavalent) | C6-C10 | C10-C16 | C16-C34 | C34-C40 | Benzene | Toluene | Ethyl benzene | Xylene (m & p) | Xylene (o) | Xylenes | Total BTEX | CEC | pH |
| Units | - | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | 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 | | |
| EIL - Res/Open Space | | | - | | | | | | | | | | 0.7 | | | | | | | | 170 | | | | 100 | | 245 | 196 | 1112 | | 287 | 420 | | 180 | 120 | 300 | 2800 | | | | | | | | | |
| HIL-A Residential | | | - | | 3 | 3 | 3 | | | | | | | | | | | | | | | 300 | | | 100 | 20 | 100 | 6000 | 300 | 10 | 400 | 7400 | 100 | 45 | 110 | 2500 | 10000 | | | | | | | | | |
| HIL-C Recreational | | | - | | 3 | 3 | 3 | | | | | | | | | | | | | | | 300 | | | 300 | 90 | 300 | 17000 | 600 | 13 | 1200 | 30000 | 300 | NL | NL | 2500 | 10000 | | | | | | | | | |
| BH21_0.3 | 0.3 | 0.3 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 12 | <0.4 | 170 | 30 | 120 | <0.1 | 61 | 160 | | | | | | | | | | | | | | | |
| BH21_0.5 | 0.5 | 0.5 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 11 | <0.4 | 180 | 28 | <5 | <0.1 | 84 | 34 | | | | | | | | | | | | | | | |
| MW01 - 0.1 | 0.1 | 0.1 | Area 2A | 17/11/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW01 - 0.25 | 0.25 | 0.25 | Area 2A | 17/11/2021 | | | | | | | | | | | | | | | | | | | | | 9.9 | <0.4 | 6.5 | 25 | 21 | <0.1 | 7.8 | 80 | <1 | | | | | | | | | | | | | 17 | 5.5 |
| MW01 - 0.50 | 0.5 | 0.5 | Area 2A | 17/11/2021 | | | | | | | | | | | | | | | | | | | | | <2 | <0.4 | 89 | 9.3 | <5 | <0.1 | 23 | 19 | <1 | | | | | | | | | | | | | | |
| MW01_0.75 | 0.75 | 0.75 | Area 2A | 17/11/2021 | | | | | | | | | | | | | | | | | | | | | 3.5 | <0.5 | 120 | 24 | <5 | <0.1 | 52 | 30 | <1 | | | | | | | | | | | | | 33 | 6.6 |
| MW01_1.0 | 1 | 1 | Area 2A | 17/11/2021 | | | | | | | | | | | | | | | | | | | | | 3.5 | <0.5 | 100 | 21 | <5 | <0.1 | 54 | 25 | <1 | | | | | | | | | | | | | | |
| SLAG-1 | SLAG-1 | SLAG-1 | SLAG | 3/09/2021 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2 | <0.4 | <5 | <5 | 10 | <0.1 | <5 | 19 | <1 | | | | | | | | | | | | | | |
| SLAG-2 | SLAG-2 | SLAG-2 | SLAG | 3/09/2021 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2 | <0.4 | <5 | <5 | <5 | <0.1 | <5 | <5 | <1 | | | | | | | | | | | | | | |
| BH01_CONCRETE | CONCRETE | CONCRETE | Area 4A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH03_CONCRETE | CONCRETE | CONCRETE | Area 4A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH05_CONCRETE | CONCRETE | CONCRETE | Area 4A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH06_CONCRETE | CONCRETE | CONCRETE | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH07_CONCRETE | CONCRETE | CONCRETE | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH08_CONCRETE | CONCRETE | CONCRETE | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH09_CONCRETE | CONCRETE | CONCRETE | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH10_CONCRETE | CONCRETE | CONCRETE | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH11_CONCRETE | CONCRETE | CONCRETE | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH21_CONCRETE | CONCRETE | CONCRETE | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**DVA Greenslopes Soil Data**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Sampled_Date | Asbestos | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Asbestos (ID) | ACM (w/w) | Asbestos Fines (w/w) | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endrin aldehyde | Endrin ketone | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Total OCP |
| Units | - | - | - | - | - | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| SS01 | 0 | 0.1 | Area 2B | 16/07/2013 | Chrysotile | | 0.007% (*) | 1.3 | <0.05 | <0.05 | <0.12 | <0.05 | 0.9 | <0.05 | 1.7 | 3.7 | 6.7 | 0.07 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | 7.67 |
| SS02 | 0 | 0.1 | Area 1 | 16/07/2013 | Chrysotile | | 0.022% (*) | <0.05 | <0.05 | <0.05 | <0.25 | <0.05 | 20 | <0.05 | <0.05 | 0.12 | <0.22 | 0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.26 | <0.05 | <0.05 | <0.1 | 20.58 |
| SS03 | 0 | 0.1 | Area 2A | 16/07/2013 | ND | | ND | 0.09 | <0.05 | 0.11 | 1.81 | <0.05 | 0.3 | <0.05 | <0.05 | 0.13 | <0.27 | 1.7 | <0.05 | 0.07 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | 2.4 |
| SS04 | 0 | 0.1 | Area 2A | 16/07/2013 | ND | | ND | <0.05 | <0.05 | <0.05 | 1.15 | <0.05 | 8.2 | <0.05 | <0.05 | <0.05 | <0.15 | 1.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.24 | <0.05 | <0.05 | <0.1 | 9.54 |
| SA01/A01 | 0 | 0.1 | Area 2A | 25/09/2013 | Chrysotile | | 0.0005% | | | | | | | | | | | | | | | | | | | | | | | | |
| SA02/A02 | 0 | 0.1 | Area 2A | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA03/A03 | 0 | 0.1 | Area 2A | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA04/A04 | 0 | 0.1 | Area 2A | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | |
| SA05/A05 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0 | 0.1 | Area 2B | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0.3 | 0.4 | Area 2B | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | |
| SA07/A07 | 0 | 0.1 | Area 2B | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | |
| SA08/A08 | 0 | 0.1 | Area 2B | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | |
| SA09/A09 | 0 | 0.1 | Area 1 | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | |
| SA10/A10 | 0 | 0.1 | Area 1 | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | |
| SA11/A11 | 0 | 0.1 | Area 1 | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | |
| SA13/A13 | 0 | 0.1 | Area 1 | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | |
| Main Hall (under building) | 0 | 0 | Area 2B | 25/09/2013 | | 0.0149% | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accomodation Building (under building) | 0 | 0 | Area 1 | 25/09/2013 | | 0.0303% | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unsealed External Areas | 0 | 0.01 | | 25/09/2013 | | 0.0084% | | | | | | | | | | | | | | | | | | | | | | | | | |
| A01, A04, A10 | 0.15 | 0.15 | | 25/09/2013 | | 0.0090% | | | | | | | | | | | | | | | | | | | | | | | | | |
| A06, A10 | 0.15 | 0.15 | | 25/09/2013 | | 0.0038% | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA01 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | 0.27 | - | 0.07 | 0.21 | < 0.05 | 31 | < 0.05 | 0.08 | 1.1 | 1.45 | 0.14 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.13 | < 0.05 | < 0.05 | < 0.05 | < 1 | 32.79 |
| HA02 | 0 | 0.1 | Area 3 | 25/09/2013 | | | | 0.23 | - | < 0.05 | <0.1 | < 0.05 | 51 | < 0.05 | 0.09 | 0.73 | 1.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.08 | 0.23 | < 0.05 | < 0.05 | < 1 | 52.36 |
| HA03 | 0 | 0.1 | Area 3 | 25/09/2013 | | | | 0.57 | - | < 0.05 | <0.11 | < 0.05 | 140 | < 0.05 | 0.18 | 1.6 | 2.35 | 0.06 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.14 | 0.51 | < 0.05 | < 0.05 | < 1 | 143.06 |
| HA04 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | < 0.05 | - | < 0.05 | <0.1 | < 0.05 | 4.7 | < 0.05 | < 0.05 | 0.41 | <0.51 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.07 | < 0.05 | < 0.05 | < 1 | 5.18 |
| HA05 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | < 0.05 | - | < 0.05 | <0.1 | < 0.05 | < 0.1 | < 0.05 | < 0.05 | 0.12 | <0.22 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 0.12 |
| QC01 (DUP HA05) | 0 | 0.1 | Area 2B | 26/09/2013 | | | | < 0.05 | - | < 0.05 | <0.1 | < 0.05 | < 0.1 | < 0.05 | < 0.05 | 0.06 | <0.22 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 0.06 |
| QC01A (TRIP HA05) | 0 | 0.1 | Area 2B | 26/09/2013 | | | | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.3 | <0.1 | <0.1 | | <0.1 | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | | <0.1 |
| HA06/SA11 | 0 | 0.1 | Area 2A | 25/09/2013 | ND | | | 0.49 | - | < 0.05 | <0.87 | < 0.05 | < 0.1 | < 0.05 | 0.27 | 4.2 | 4.96 | 0.82 | < 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 5.83 |
| HA07/SA12 | 0 | 0.1 | Area 1 | 25/09/2013 | | | | 0.05 | - | 0.26 | 28.26 | < 0.05 | 0.3 | < 0.05 | < 0.05 | 0.26 | <0.36 | 28 | < 0.05 | 0.96 | < 0.05 | < 0.05 | < 0.05 | 0.7 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 30.53 |
| HA08/SA13 | 0 | 0.1 | Area 1 | 25/09/2013 | ND | | | < 0.05 | - | < 0.05 | <0.13 | < 0.05 | < 0.1 | < 0.05 | < 0.05 | 0.13 | <0.23 | 0.08 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 0.21 |
| HA09 | 0 | 0.2 | Area 1 | 25/09/2013 | | | | 0.07 | - | 0.06 | 55.06 | < 0.05 | 0.3 | < 0.05 | < 0.05 | 0.22 | <0.34 | 55 | < 0.05 | 0.58 | < 0.05 | < 0.05 | < 0.05 | 0.93 | < 0.05 | < 0.05 | 0.06 | < 0.05 | < 0.05 | < 1 | 57.22 |
| HA10 | 0 | 0.2 | Area 1 | 25/09/2013 | | | | < 0.5 | - | 86 | 506 | < 0.05 | 5.4 | < 0.05 | < 0.05 | < 0.05 | <0.55 | 420 | < 0.05 | 8.5 | < 0.05 | < 0.05 | < 0.05 | 6.5 | < 0.05 | 0.87 | 0.11 | < 0.05 | < 0.05 | < 1 | 527.38 |
| HA11 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | 0.13 | - | < 0.05 | <0.44 | < 0.05 | 42 | < 0.05 | 0.06 | 0.16 | 0.35 | 0.39 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.2 | 1 | < 0.05 | < 0.05 | < 1 | 43.94 |
| 1-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | 0.82 | <0.05 | <0.05 | <0.05 | <0.05 | 0.3 | <0.05 | 0.13 | 0.9 | 1.85 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 2.15 |
| 1-0.3 | 0.3 | 0.3 | Area 2B | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 |

**DVA Greenslopes Soil Data**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Sampled_Date | Asbestos | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Asbestos (ID) | ACM (w/w) | Asbestos Fines (w/w) | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endrin aldehyde | Endrin ketone | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Total OCP |
| Units | - | - | - | - | - | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| 2-0.0 | 0 | 0.1 | Area 3 | 1/10/2019 | | | | 0.09 | <0.05 | <0.05 | 0.06 | <0.05 | 5.2 | <0.05 | <0.05 | 0.33 | 0.42 | 0.06 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 5.68 |
| QC01 (DUP 2-0.0) | 0 | 0.1 | Area 3 | 1/10/2019 | | | | 0.11 | <0.05 | <0.05 | <0.05 | <0.05 | 2.1 | <0.05 | 0.36 | 0.06 | 0.53 | <0.05 | 0.05 | <0.05 | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 2.73 |
| QC02 (TRIP 2-0.0) | 0 | 0.1 | Area 3 | 1/10/2019 | | | | 0.14 | <0.05 | <0.05 | <0.05 | <0.05 | 5.84 | <0.05 | <0.05 | 0.9 | 1.04 | <0.05 | <0.05 | <0.05 | <1.02 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.06 | <0.05 | <0.2 | - | 6.94 |
| 2-0.3 | 0.3 | 0.3 | Area 3 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.2 |
| QC03 (DUP 2-0.3) | 0.3 | 0.3 | Area 3 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 |
| QC04 (TRIP 2-0.3) | 0.3 | 0.3 | Area 3 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.23 | <0.05 | <0.05 | <0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | 0.23 |
| 3-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.9 | <0.05 | 0.27 | 0.59 | 0.91 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 2.81 |
| 3-0.35 | 0.35 | 0.35 | Area 2B | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 |
| 4-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | 0.31 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | 4.1 | 4.41 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 4.41 |
| 4-0.35 | 0.35 | 0.35 | Area 2B | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 |
| 5-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | 1.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | 1.5 | 5.4 | 8.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 8.2 |
| 5-0.35 | 0.35 | 0.35 | Area 2B | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 |
| 6-0.0 | 0 | 0.1 | Area 3 | 1/10/2019 | | | | 0.17 | <0.05 | <0.05 | 0.08 | <0.05 | 5.5 | <0.05 | 0.06 | <0.05 | 0.23 | 0.08 | 0.07 | <0.05 | <0.05 | <0.05 | <0.05 | 0.05 | <0.05 | 0.26 | 0.89 | <0.05 | <0.05 | <0.05 | <1 | 7.08 |
| 6-0.45 | 0.45 | 0.45 | Area 3 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.5 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.26 | <0.05 | <0.05 | <0.05 | <1 | 0.76 |
| 6P-0.0 (HA02) | 0 | 0.1 | Area 2B | 1/10/2019 | | | | 0.19 | <0.05 | <0.05 | <0.05 | <0.05 | 4.2 | <0.05 | 0.06 | 0.33 | 0.58 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 4.78 |
| 6P-0.3 (HA02) | 0.3 | 0.3 | Area 2B | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.3 |
| 7-0.0 | 0 | 0.1 | Area 3 | 1/10/2019 | | | | 0.26 | <0.05 | <0.05 | <0.05 | <0.05 | 16 | <0.05 | 0.08 | <0.05 | 0.34 | <0.05 | 0.24 | <0.05 | <0.05 | <0.05 | <0.05 | 0.12 | <0.05 | 1 | 3.4 | <0.05 | <0.05 | <0.05 | <1 | 21.1 |
| 7-0.45 | 0.45 | 0.45 | Area 3 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.4 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.18 | <0.05 | <0.05 | <0.05 | <1 | 0.58 |
| 7P-0.0 (HA03) | 0 | 0.1 | Area 3 | 1/10/2019 | | | | 0.15 | <0.05 | <0.05 | <0.05 | <0.05 | 2.3 | <0.05 | 0.05 | 0.17 | 0.37 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.09 | <0.05 | <0.05 | <0.05 | <1 | 2.76 |
| 7P-0.25 (HA03) | 0.25 | 0.25 | Area 3 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.4 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.4 |
| 8-0.0 | 0 | 0 | Area 1 | 1/10/2019 | | | | 0.1 | <0.05 | 0.56 | 23.56 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.1 | 23 | <0.05 | 0.12 | <0.05 | <0.05 | <0.05 | 0.23 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 24.01 |
| 8-0.42 | 0.42 | 0.42 | Area 1 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 1.3 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 1.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 1.3 |
| 9-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | 0.2 | <0.05 | 0.08 | 60.08 | <0.05 | 0.2 | <0.05 | <0.05 | <0.05 | 0.2 | 60 | <0.05 | 0.36 | <0.05 | <0.05 | <0.05 | 0.83 | <0.05 | <0.05 | 0.06 | <0.05 | <0.05 | <0.05 | <1 | 61.73 |
| 9-0.42 | 0.42 | 0.42 | Area 1 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 0.36 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.36 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.36 |
| 9P-0.0 (HA09) | 0 | 0.1 | Area 1 | 1/10/2019 | | | | 0.1 | <0.05 | <0.05 | 18 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.1 | 18 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 18.26 |
| 9P-0.45 (HA09) | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 0.13 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.13 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.13 |
| 10-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | 0.11 | <0.05 | 0.1 | 28.1 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.11 | 28 | <0.05 | 0.13 | <0.05 | <0.05 | <0.05 | 0.21 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 28.55 |
| 10-0.45 | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | 0.14 | <0.05 | 0.21 | 9.51 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.14 | 9.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.06 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 9.71 |
| 11-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | 0.34 | <0.05 | 0.06 | 36.06 | <0.05 | 0.1 | <0.05 | 0.18 | <0.05 | 0.52 | 36 | <0.05 | 0.31 | <0.05 | <0.05 | <0.05 | 0.73 | <0.05 | <0.05 | 0.18 | <0.05 | <0.05 | <0.05 | <1 | 37.9 |
| 11-0.45 | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | 0.22 | <0.05 | <0.05 | 14 | <0.05 | <0.1 | <0.05 | 0.15 | <0.05 | 0.37 | 14 | <0.05 | 0.05 | <0.05 | <0.05 | <0.05 | 0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 14.52 |
| 12-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | 0.15 | <0.05 | 0.81 | 4.31 | <0.05 | <0.1 | <0.05 | 0.15 | 0.21 | 0.51 | 3.5 | <0.05 | 0.28 | <0.05 | <0.05 | <0.05 | 0.08 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 5.18 |
| 12-0.25 | 0.25 | 0.25 | Area 1 | 1/10/2019 | | | | <0.05 | <0.05 | 0.11 | 0.47 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.36 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.47 |
| 13P-0.0 (HA07) | 0 | 0.1 | Area 1 | 1/10/2019 | | | | 0.13 | <0.05 | <0.05 | 7.5 | <0.05 | <0.1 | <0.05 | 0.11 | 0.08 | 0.32 | 7.5 | <0.05 | 0.17 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 7.99 |
| 13P-0.2 (HA07) | 0.2 | 0.2 | Area 1 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 10 | <0.05 | <0.1 | <0.05 | <0.05 | 0.05 | 0.05 | 10 | <0.05 | 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 10.21 |
| 14-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 0.07 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.07 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.07 |
| 14-0.45 | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 |
| 14P-0.0 (HA10) | 0 | 0.1 | Area 1 | 1/10/2019 | | | | 0.12 | <0.05 | 1.1 | 61.1 | <0.05 | 0.1 | <0.05 | <0.05 | <0.05 | 0.12 | 60 | <0.05 | 0.58 | <0.05 | <0.05 | <0.05 | 0.62 | <0.05 | <0.05 | 0.09 | <0.05 | <0.05 | <0.05 | <1 | 62.61 |

**DVA Greenslopes Soil Data**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Sampled_Date | Asbestos | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Asbestos (ID) | ACM (w/w) | Asbestos Fines (w/w) | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endrin aldehyde | Endrin ketone | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Total OCP |
| Units | - | - | - | - | - | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| QC07 (DUP 14P-0.0 ) | 0 | 0.1 | Area 1 | 1/10/2019 | | | | 0.24 | <0.05 | 1.9 | 75.9 | <0.05 | 0.3 | <0.05 | 0.05 | <0.05 | 0.29 | 74 | <0.05 | 1.2 | <0.05 | <0.05 | <0.05 | 1.2 | <0.05 | 0.06 | 0.22 | <0.05 | <0.05 | <1 | 79.17 |
| QC08 (TRIP 14P-0.0 ) | 0 | 0.1 | Area 1 | 1/10/2019 | | | | <0.05 | <0.05 | 2.32 | 109 | <0.05 | 0.37 | <0.05 | <0.05 | <0.2 | <0.05 | 107 | <0.05 | 1.4 | <0.05 | <0.05 | <0.05 | 1.47 | <0.05 | 0.16 | 0.22 | <0.05 | <0.2 | - | 112.94 |
| 14P-0.42 (HA10) | 0.42 | 0.42 | Area 1 | 1/10/2019 | | | | <0.05 | <0.05 | 0.06 | 3.86 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 3.8 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 3.86 |
| QC09 (DUP 14P-0.42) | 0 | 0.1 | Area 2B | 1/10/2019 | | | | <0.05 | <0.05 | 0.06 | 5.06 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 5 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 5.06 |
| QC10 (TRIP 14P-0.42) | 0 | 0.1 | Area 2B | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 3.08 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 | 3.08 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | 3.08 |
| 15-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | <0.05 | <0.05 | 0.09 | 8.29 | <0.05 | 7.4 | <0.05 | <0.05 | <0.05 | <0.05 | 8.2 | 0.13 | 0.09 | 0.26 | <0.05 | <0.05 | 0.09 | <0.05 | 0.19 | 0.38 | <0.05 | <0.05 | <1 | 16.83 |
| 16-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.11 | <0.05 | <0.05 | <1 | 1.41 |
| 16-0.45 | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 |
| 17-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | 0.18 | <0.05 | <0.05 | 0.62 | <0.05 | <0.1 | <0.05 | <0.05 | 0.18 | 0.36 | 0.62 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.98 |
| 17-0.25 | 0.25 | 0.25 | Area 2B | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 |
| 18-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | 2.2 | <0.05 | <0.05 | 0.61 | <0.05 | <0.1 | <0.05 | 0.35 | 3.8 | 6.35 | 0.61 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 6.96 |
| 18-0.2 | 0.2 | 0.2 | Area 2B | 1/10/2019 | | | | 0.11 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | 0.07 | 0.18 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.18 |
| 32-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | 1.4 | <0.05 | <0.05 | 0.3 | <0.05 | 0.1 | <0.05 | 2.1 | 23 | 26.5 | 0.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 26.9 |
| 34-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | 1 | <0.05 | 0.49 | 17.49 | <0.05 | <0.1 | <0.05 | 0.15 | 0.51 | 1.66 | 17 | <0.05 | 0.22 | <0.05 | <0.05 | <0.05 | 0.18 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 19.55 |
| 36-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | 0.07 | <0.05 | <0.05 | 20 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.07 | 20 | <0.05 | 0.12 | <0.05 | <0.05 | <0.05 | 0.11 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 20.3 |
| BH01_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | | | | 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.16 |
| BH02_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH03_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | | | | 0.39 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | 0.06 | 0.31 | 0.76 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.76 |
| BH04_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH05_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH06_0.1 | 0.1 | 0.1 | Area 4B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH06_0.3 | 0.3 | 0.3 | Area 4B | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH06_0.5 | 0.5 | 0.5 | Area 4B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH07_0.1 | 0.1 | 0.1 | Area 4B | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH07_0.3 | 0.3 | 0.3 | Area 4B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH08_0.1 | 0.1 | 0.1 | Area 4B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH08_0.3 | 0.3 | 0.3 | Area 1 | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH12_0.1 | 0.1 | 0.1 | Area 2B | 3/09/2021 | ND | | | 0.47 | <0.05 | <0.05 | 0.21 | <0.05 | 0.2 | <0.05 | 0.34 | 18 | 18.81 | 0.21 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 19.22 |
| BH13_0.1 | 0.1 | 0.1 | Area 1 | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | 0.1 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.1 |
| BH14_0.1 | 0.1 | 0.1 | Area 1 | 3/09/2021 | ND | | | <0.05 | <0.05 | 0.15 | 9.15 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 9 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 9.15 |
| BH14_0.3 | 0.3 | 0.3 | Area 1 | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | 0.91 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.91 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.91 |
| BH14_0.5 | 0.5 | 0.5 | Area 1 | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | 0.24 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.24 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.24 |
| BH15_0.1 | 0.1 | 0.1 | Area 1 | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | 0.05 | 0.05 | <0.05 | <0.05 | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.1 |
| BH15_0.3 | 0.3 | 0.3 | Area 1 | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH15_0.5 | 0.5 | 0.5 | Area 1 | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH16_0.1 | 0.1 | 0.1 | Area 4B | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH16_0.3 | 0.3 | 0.3 | Area 4B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |

**DVA Greenslopes Soil Data**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Sampled_Date | Asbestos | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Asbestos (ID) | ACM (w/w) | Asbestos Fines (w/w) | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endrin aldehyde | Endrin ketone | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Total OCP |
| Units | - | - | - | - | - | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| BH16_0.5 | 0.5 | 0.5 | Area 4B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH17_0.1 | 0.1 | 0.1 | Area 2B | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH17_0.3 | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| **QC09_210903 (DUP BH17_0.3)** | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| QC10_210903 (TRIP BH17_0.3) | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | | | <0.1 |
| BH17_0.5 | 0.5 | 0.5 | Area 2B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH18_0.1 | 0.1 | 0.1 | Area 2B | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH18_0.3 | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH18_0.5 | 0.5 | 0.5 | Area 2B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH19_0.1 | 0.1 | 0.1 | Area 2B | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH19_0.3 | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| **QC01_210903 (DUP BH19_0.3)** | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| QC02_210903 (TRIP BH19_0.3) | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | | | <0.1 |
| BH19_0.5 | 0.5 | 0.5 | Area 2B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH20_0.1 | 0.1 | 0.1 | Area 2A | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH20_0.3 | 0.3 | 0.3 | Area 2A | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH20_0.5 | 0.5 | 0.5 | Area 2A | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH21_0.1 | 0.1 | 0.1 | Area 1 | 3/09/2021 | | | | <0.05 | <0.05 | 98 | 103.2 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 5.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 103.2 |
| BH21_0.3 | 0.3 | 0.3 | Area 1 | 3/09/2021 | | | | 0.07 | <0.05 | 0.98 | 1.41 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.07 | 0.43 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 1.48 |
| BH21_0.5 | 0.5 | 0.5 | Area 1 | 3/09/2021 | | | | <0.05 | <0.05 | 0.12 | 0.12 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.12 |
| SLAG-1 | SLAG-1 | SLAG-1 | SLAG | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SLAG-2 | SLAG-2 | SLAG-2 | SLAG | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH01_CONCRETE | CONCRETE | CONCRETE | Area 4A | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH03_CONCRETE | CONCRETE | CONCRETE | Area 4A | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH05_CONCRETE | CONCRETE | CONCRETE | Area 4A | 3/09/2021 | | | | 1.6 | <0.05 | <0.05 | 0.13 | <0.05 | <0.1 | <0.05 | 0.28 | 0.33 | 2.21 | 0.13 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 2.34 |
| BH06_CONCRETE | CONCRETE | CONCRETE | Area 4B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH07_CONCRETE | CONCRETE | CONCRETE | Area 4B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH08_CONCRETE | CONCRETE | CONCRETE | Area 4B | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH09_CONCRETE | CONCRETE | CONCRETE | Area 1 | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH10_CONCRETE | CONCRETE | CONCRETE | Area 1 | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH11_CONCRETE | CONCRETE | CONCRETE | Area 1 | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 |
| BH21_CONCRETE | CONCRETE | CONCRETE | Area 1 | 3/09/2021 | | | | <0.05 | <0.05 | 0.38 | 0.73 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.35 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.73 |

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Sampled_Date | Organophosphate Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Azinophos methyl | Bolstar (Sulprofos) | Chlorfenvinphos | Chlorpyrifos | Chlorpyrifos-methyl | Coumaphos | Demeton-O | Demeton-S | Diazinon | Dichlorvos | Dimethoate | Disulfoton | EPN | Ethion | Ethoprop | Ethyl parathion | Fenitrothion | Fensulfothion | Fenthion | Malathion | Merphos | Methyl parathion | Mevinphos (Phosdrin) | Monocrotophos | Naled (Dibrom) | Omethoate | Phorate | Pirimiphos-methyl | Pyrazophos | Ronnel | Terbufos | Tetrachlorvinphos | Trichloronate | Tokuthion |
| Units | - | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SS01 | 0 | 0.1 | Area 2B | 16/07/2013 | <0.2 | <0.2 | | <0.2 | | | <0.2 | | <0.2 | <0.2 | | <0.2 | | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 | | <0.5 | | <0.2 | | | <0.2 | | | <0.2 | <0.2 |
| SS02 | 0 | 0.1 | Area 1 | 16/07/2013 | <0.2 | <0.2 | | <0.2 | | | <0.2 | | <0.2 | <0.2 | | <0.2 | | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 | | <0.5 | | <0.2 | | | <0.2 | | | <0.2 | <0.2 |
| SS03 | 0 | 0.1 | Area 2A | 16/07/2013 | <0.2 | <0.2 | | <0.2 | | | <0.2 | | <0.2 | <0.2 | | <0.2 | | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 | | <0.5 | | <0.2 | | | <0.2 | | | <0.2 | <0.2 |
| SS04 | 0 | 0.1 | Area 2A | 16/07/2013 | <0.2 | <0.2 | | <0.2 | | | <0.2 | | <0.2 | <0.2 | | <0.2 | | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 | | <0.5 | | <0.2 | | | <0.2 | | | <0.2 | <0.2 |
| SA01/A01 | 0 | 0.1 | Area 2A | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA02/A02 | 0 | 0.1 | Area 2A | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA03/A03 | 0 | 0.1 | Area 2A | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA04/A04 | 0 | 0.1 | Area 2A | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA05/A05 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0.3 | 0.4 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA07/A07 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA08/A08 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA09/A09 | 0 | 0.1 | Area 1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA10/A10 | 0 | 0.1 | Area 1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA11/A11 | 0 | 0.1 | Area 1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA13/A13 | 0 | 0.1 | Area 1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Main Hall (under building) | 0 | 0 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accomodation Building (under building) | 0 | 0 | Area 1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unsealed External Areas | 0 | 0.01 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A01, A04, A10 | 0.15 | 0.15 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A06, A10 | 0.15 | 0.15 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA01 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA02 | 0 | 0.1 | Area 3 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA03 | 0 | 0.1 | Area 3 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA04 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA05 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC01 (DUP HA05) | 0 | 0.1 | Area 2B | 26/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC01A (TRIP HA05) | 0 | 0.1 | Area 2B | 26/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA06/SA11 | 0 | 0.1 | Area 2A | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA07/SA12 | 0 | 0.1 | Area 1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA08/SA13 | 0 | 0.1 | Area 1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA09 | 0 | 0.2 | Area 1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA10 | 0 | 0.2 | Area 1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA11 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1-0.3 | 0.3 | 0.3 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Sampled_Date | Organophosphate Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Azinophos methyl | Bolstar (Sulprofos) | Chlorfenvinphos | Chlorpyrifos | Chlorpyrifos-methyl | Coumaphos | Demeton-O | Demeton-S | Diazinon | Dichlorvos | Dimethoate | Disulfoton | EPN | Ethion | Ethoprop | Ethyl parathion | Fenitrothion | Fensulfothion | Fenthion | Malathion | Merphos | Methyl parathion | Mevinphos (Phosdrin) | Monocrotophos | Naled (Dibrom) | Omethoate | Phorate | Pirimiphos-methyl | Pyrazophos | Ronnel | Terbufos | Tetrachlorvinphos | Trichloronate | Tokuthion |
| Units | - | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-0.0 | 0 | 0.1 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC01 (DUP 2-0.0) | 0 | 0.1 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC02 (TRIP 2-0.0) | 0 | 0.1 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-0.3 | 0.3 | 0.3 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC03 (DUP 2-0.3) | 0.3 | 0.3 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC04 (TRIP 2-0.3) | 0.3 | 0.3 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3-0.35 | 0.35 | 0.35 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4-0.35 | 0.35 | 0.35 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5-0.35 | 0.35 | 0.35 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6-0.0 | 0 | 0.1 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6-0.45 | 0.45 | 0.45 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6P-0.0 (HA02) | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6P-0.3 (HA02) | 0.3 | 0.3 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7-0.0 | 0 | 0.1 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7-0.45 | 0.45 | 0.45 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7P-0.0 (HA03) | 0 | 0.1 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7P-0.25 (HA03) | 0.25 | 0.25 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8-0.0 | 0 | 0 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8-0.42 | 0.42 | 0.42 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9-0.42 | 0.42 | 0.42 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9P-0.0 (HA09) | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9P-0.45 (HA09) | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10-0.45 | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11-0.45 | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12-0.25 | 0.25 | 0.25 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13P-0.0 (HA07) | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13P-0.2 (HA07) | 0.2 | 0.2 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14-0.45 | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14P-0.0 (HA10) | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Sampled_Date | Organophosphate Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Azinophos methyl | Bolstar (Sulprofos) | Chlorfenvinphos | Chlorpyrifos | Chlorpyrifos-methyl | Coumaphos | Demeton-O | Demeton-S | Diazinon | Dichlorvos | Dimethoate | Disulfoton | EPN | Ethion | Ethoprop | Ethyl parathion | Fenitrothion | Fensulfothion | Fenthion | Malathion | Merphos | Methyl parathion | Mevinphos (Phosdrin) | Monocrotophos | Naled (Dibrom) | Omethoate | Phorate | Pirimiphos-methyl | Pyrazophos | Ronnel | Terbufos | Tetrachlorvinphos | Trichloronate | Tokuthion |
| Units | - | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC07 (DUP 14P-0.0 ) | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC08 (TRIP 14P-0.0 ) | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14P-0.42 (HA10) | 0.42 | 0.42 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC09 (DUP 14P-0.42) | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC10 (TRIP 14P-0.42) | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16-0.45 | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17-0.25 | 0.25 | 0.25 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18-0.2 | 0.2 | 0.2 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 34-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH01_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH02_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH03_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH04_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH05_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH06_0.1 | 0.1 | 0.1 | Area 4B | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH06_0.3 | 0.3 | 0.3 | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH06_0.5 | 0.5 | 0.5 | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH07_0.1 | 0.1 | 0.1 | Area 4B | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH07_0.3 | 0.3 | 0.3 | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH08_0.1 | 0.1 | 0.1 | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH08_0.3 | 0.3 | 0.3 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH12_0.1 | 0.1 | 0.1 | Area 2B | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH13_0.1 | 0.1 | 0.1 | Area 1 | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH14_0.1 | 0.1 | 0.1 | Area 1 | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH14_0.3 | 0.3 | 0.3 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH14_0.5 | 0.5 | 0.5 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH15_0.1 | 0.1 | 0.1 | Area 1 | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH15_0.3 | 0.3 | 0.3 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH15_0.5 | 0.5 | 0.5 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH16_0.1 | 0.1 | 0.1 | Area 4B | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH16_0.3 | 0.3 | 0.3 | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Sampled_Date | Organophosphate Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Azinophos methyl | Bolstar (Sulprofos) | Chlorfenvinphos | Chlorpyrifos | Chlorpyrifos-methyl | Coumaphos | Demeton-O | Demeton-S | Diazinon | Dichlorvos | Dimethoate | Disulfoton | EPN | Ethion | Ethoprop | Ethyl parathion | Fenitrothion | Fensulfothion | Fenthion | Malathion | Merphos | Methyl parathion | Mevinphos (Phosdrin) | Monocrotophos | Naled (Dibrom) | Omethoate | Phorate | Pirimiphos-methyl | Pyrazophos | Ronnel | Terbufos | Tetrachlorvinphos | Trichloronate | Tokuthion |
| Units | - | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH16_0.5 | 0.5 | 0.5 | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH17_0.1 | 0.1 | 0.1 | Area 2B | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH17_0.3 | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **QC09_210903 (DUP BH17_0.3)** | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC10_210903 (TRIP BH17_0.3) | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH17_0.5 | 0.5 | 0.5 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH18_0.1 | 0.1 | 0.1 | Area 2B | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH18_0.3 | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH18_0.5 | 0.5 | 0.5 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH19_0.1 | 0.1 | 0.1 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH19_0.3 | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **QC01_210903 (DUP BH19_0.3)** | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC02_210903 (TRIP BH19_0.3) | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH19_0.5 | 0.5 | 0.5 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH20_0.1 | 0.1 | 0.1 | Area 2A | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH20_0.3 | 0.3 | 0.3 | Area 2A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH20_0.5 | 0.5 | 0.5 | Area 2A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH21_0.1 | 0.1 | 0.1 | Area 1 | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH21_0.3 | 0.3 | 0.3 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH21_0.5 | 0.5 | 0.5 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SLAG-1 | SLAG-1 | SLAG-1 | SLAG | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SLAG-2 | SLAG-2 | SLAG-2 | SLAG | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH01_CONCRETE | CONCRETE | CONCRETE | Area 4A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH03_CONCRETE | CONCRETE | CONCRETE | Area 4A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH05_CONCRETE | CONCRETE | CONCRETE | Area 4A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH06_CONCRETE | CONCRETE | CONCRETE | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH07_CONCRETE | CONCRETE | CONCRETE | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH08_CONCRETE | CONCRETE | CONCRETE | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH09_CONCRETE | CONCRETE | CONCRETE | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH10_CONCRETE | CONCRETE | CONCRETE | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH11_CONCRETE | CONCRETE | CONCRETE | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH21_CONCRETE | CONCRETE | CONCRETE | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Sampled_Date | Polyaromatic Hydrocarbons (PAH) | | | | | | | | | | | | | | | | | | | | Metals | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(b+j)fluoranthene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | PAHs (Sum of total) | Phenanthrene | Pyrene | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc |
| Units | - | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | | | | | | | | | | | | | | | 100 | 10 | 100 | 4000 | 100 | | 100 | 10000 |
| SS01 | 0 | 0.1 | Area 2B | 16/07/2013 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 32 | 0.7 | 54 | 21 | 39 | <0.1 | 35 | 760 |
| SS02 | 0 | 0.1 | Area 1 | 16/07/2013 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 10 | 1.4 | 12 | 27 | 100 | <0.1 | 8.4 | 2000 |
| SS03 | 0 | 0.1 | Area 2A | 16/07/2013 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 16 | 0.4 | 42 | 20 | 75 | <0.1 | 18 | 190 |
| SS04 | 0 | 0.1 | Area 2A | 16/07/2013 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 10 | 0.6 | 22 | 33 | 72 | <0.1 | 11 | 250 |
| SA01/A01 | 0 | 0.1 | Area 2A | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA02/A02 | 0 | 0.1 | Area 2A | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA03/A03 | 0 | 0.1 | Area 2A | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA04/A04 | 0 | 0.1 | Area 2A | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA05/A05 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0.3 | 0.4 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA07/A07 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA08/A08 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA09/A09 | 0 | 0.1 | Area 1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA10/A10 | 0 | 0.1 | Area 1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA11/A11 | 0 | 0.1 | Area 1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA13/A13 | 0 | 0.1 | Area 1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Main Hall (under building) | 0 | 0 | Area 2B | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accomodation Building (under building) | 0 | 0 | Area 1 | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unsealed External Areas | 0 | 0.01 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A01, A04, A10 | 0.15 | 0.15 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A06, A10 | 0.15 | 0.15 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA01 | 0 | 0.1 | Area 2B | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9.3 | < 0.4 | 39 | 8.1 | 7.3 | < 0.1 | 20 | 64 |
| HA02 | 0 | 0.1 | Area 3 | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 14 | < 0.4 | 44 | 6.4 | 15 | < 0.1 | 24 | 44 |
| HA03 | 0 | 0.1 | Area 3 | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 20 | < 0.4 | 69 | 12 | 27 | < 0.1 | 25 | 92 |
| HA04 | 0 | 0.1 | Area 2B | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 14 | < 0.4 | 54 | 11 | 14 | < 0.1 | 16 | 26 |
| HA05 | 0 | 0.1 | Area 2B | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 17 | < 0.4 | 66 | 9.2 | 10 | < 0.1 | 19 | 45 |
| QC01 (DUP HA05) | 0 | 0.1 | Area 2B | 26/09/2013 | | | | | | | | | | | | | | | | | | | | | 21 | < 0.4 | 73 | 10 | 16 | < 0.1 | 20 | 54 |
| QC01A (TRIP HA05) | 0 | 0.1 | Area 2B | 26/09/2013 | | | | | | | | | | | | | | | | | | | | | 11 | < 0.4 | 90 | 12 | 20 | < 0.1 | 27 | 74 |
| HA06/SA11 | 0 | 0.1 | Area 2A | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 22 | < 0.4 | 88 | 9.3 | 13 | < 0.1 | 19 | 41 |
| HA07/SA12 | 0 | 0.1 | Area 1 | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 15 | < 0.4 | 43 | 13 | 63 | < 0.1 | 15 | 140 |
| HA08/SA13 | 0 | 0.1 | Area 1 | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 10 | < 0.4 | 39 | 14 | 50 | < 0.1 | 11 | 72 |
| HA09 | 0 | 0.2 | Area 1 | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 10 | < 0.4 | 25 | 24 | 120 | 0.1 | 8.8 | 380 |
| HA10 | 0 | 0.2 | Area 1 | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 19 | < 0.4 | 22 | 19 | 120 | < 0.1 | 8.7 | 330 |
| HA11 | 0 | 0.1 | Area 2B | 25/09/2013 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 23 | < 0.4 | 50 | 15 | 140 | < 0.1 | 13 | 450 |
| 1-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-0.3 | 0.3 | 0.3 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**DVA Greenslopes Soil Data**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Sampled_Date | Polyaromatic Hydrocarbons (PAH) | | | | | | | | | | | | | | | | | | | | Metals | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(b+j)fluoranthene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | PAHs (Sum of total) | Phenanthrene | Pyrene | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc |
| Units | - | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | | | | | | | | | | | | | | | 100 | 10 | 100 | 4000 | 100 | | 100 | 10000 |
| 2-0.0 | 0 | 0.1 | Area 3 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QC01 (DUP 2-0.0) | 0 | 0.1 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC02 (TRIP 2-0.0) | 0 | 0.1 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-0.3 | 0.3 | 0.3 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC03 (DUP 2-0.3) | 0.3 | 0.3 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC04 (TRIP 2-0.3) | 0.3 | 0.3 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3-0.35 | 0.35 | 0.35 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4-0.35 | 0.35 | 0.35 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5-0.35 | 0.35 | 0.35 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6-0.0 | 0 | 0.1 | Area 3 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6-0.45 | 0.45 | 0.45 | Area 3 | 1/10/2019 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 2.1 | <0.4 | <5 | 11 | 32 | <0.1 | 5.8 | 72 |
| 6P-0.0 (HA02) | 0 | 0.1 | Area 2B | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6P-0.3 (HA02) | 0.3 | 0.3 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7-0.0 | 0 | 0.1 | Area 3 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7-0.45 | 0.45 | 0.45 | Area 3 | 1/10/2019 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 2.6 | <0.4 | <5 | 12 | 19 | <0.1 | 5.8 | 51 |
| 7P-0.0 (HA03) | 0 | 0.1 | Area 3 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7P-0.25 (HA03) | 0.25 | 0.25 | Area 3 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8-0.0 | 0 | 0 | Area 1 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8-0.42 | 0.42 | 0.42 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9-0.42 | 0.42 | 0.42 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9P-0.0 (HA09) | 0 | 0.1 | Area 1 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9P-0.45 (HA09) | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10-0.45 | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11-0.45 | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12-0.25 | 0.25 | 0.25 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13P-0.0 (HA07) | 0 | 0.1 | Area 1 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 13P-0.2 (HA07) | 0.2 | 0.2 | Area 1 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 14-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 14-0.45 | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14P-0.0 (HA10) | 0 | 0.1 | Area 1 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Sampled_Date | Polyaromatic Hydrocarbons (PAH) | | | | | | | | | | | | | | | | | | | | Metals | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(b+j)fluoranthene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | PAHs (Sum of total) | Phenanthrene | Pyrene | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc |
| Units | - | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | | | | | | | | | | | | | | | 100 | 10 | 100 | 4000 | 100 | | 100 | 10000 |
| QC07 (DUP 14P-0.0 ) | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC08 (TRIP 14P-0.0 ) | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14P-0.42 (HA10) | 0.42 | 0.42 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC09 (DUP 14P-0.42) | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC10 (TRIP 14P-0.42) | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 16-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 16-0.45 | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 17-0.25 | 0.25 | 0.25 | Area 2B | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18-0.2 | 0.2 | 0.2 | Area 2B | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 32-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 34-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 36-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH01_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | <2 | <0.4 | 45 | 6.1 | 5.6 | <0.1 | 22 | 22 |
| BH02_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | <2 | <0.4 | 37 | <5 | <5 | <0.1 | 18 | 16 |
| BH03_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 6.5 | <0.4 | 70 | 6.6 | 40 | <0.1 | 22 | 29 |
| BH04_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 3.4 | <0.4 | 49 | <5 | <5 | <0.1 | 9.2 | 16 |
| BH05_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 12 | <0.4 | 75 | 7.1 | 5.5 | <0.1 | 14 | 19 |
| BH06_0.1 | 0.1 | 0.1 | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 4.6 | <0.4 | 5.6 | 6.4 | 6.6 | <0.1 | <5 | 19 |
| BH06_0.3 | 0.3 | 0.3 | Area 4B | 3/09/2021 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 5.7 | <0.4 | 13 | 5.9 | 11 | <0.1 | <5 | 24 |
| BH06_0.5 | 0.5 | 0.5 | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 8.8 | <0.4 | 150 | 21 | <5 | <0.1 | 45 | 27 |
| BH07_0.1 | 0.1 | 0.1 | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 7 | <0.4 | 5.6 | 7.4 | 6.6 | <0.1 | <5 | 19 |
| BH07_0.3 | 0.3 | 0.3 | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 8.7 | <0.4 | 170 | 10 | 6.7 | <0.1 | 30 | 32 |
| BH08_0.1 | 0.1 | 0.1 | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 4.6 | <0.4 | 100 | 6.7 | <5 | <0.1 | 15 | 14 |
| BH08_0.3 | 0.3 | 0.3 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 3.7 | <0.4 | 110 | 11 | <5 | <0.1 | 26 | 20 |
| BH12_0.1 | 0.1 | 0.1 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 6.4 | 0.9 | 79 | 21 | 54 | <0.1 | 66 | 160 |
| BH13_0.1 | 0.1 | 0.1 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 10 | 0.5 | 73 | 30 | 110 | <0.1 | 25 | 250 |
| BH14_0.1 | 0.1 | 0.1 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 7.7 | <0.4 | 16 | 13 | 120 | <0.1 | 6.9 | 210 |
| BH14_0.3 | 0.3 | 0.3 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 6.1 | <0.4 | 6.7 | 7.8 | 33 | <0.1 | <5 | 48 |
| BH14_0.5 | 0.5 | 0.5 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 2.1 | <0.4 | 59 | 6.7 | 6.7 | <0.1 | 17 | 20 |
| BH15_0.1 | 0.1 | 0.1 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 7.3 | <0.4 | 32 | 25 | 160 | <0.1 | 13 | 250 |
| BH15_0.3 | 0.3 | 0.3 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 6.7 | <0.4 | 67 | 8.6 | 9.8 | <0.1 | 14 | 26 |
| BH15_0.5 | 0.5 | 0.5 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 6.8 | <0.4 | 66 | 11 | <5 | <0.1 | 15 | 18 |
| BH16_0.1 | 0.1 | 0.1 | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 19 | <0.4 | 30 | 20 | 160 | <0.1 | 9.5 | 320 |
| BH16_0.3 | 0.3 | 0.3 | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 11 | <0.4 | 79 | 12 | 47 | <0.1 | 21 | 53 |

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Sampled_Date | Polyaromatic Hydrocarbons (PAH) | | | | | | | | | | | | | | | | | | | | Metals | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(b+j)fluoranthene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | PAHs (Sum of total) | Phenanthrene | Pyrene | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc |
| Units | - | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | | | | | | | | | | | | | | | 100 | 10 | 100 | 4000 | 100 | | 100 | 10000 |
| BH16_0.5 | 0.5 | 0.5 | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 12 | <0.4 | 150 | 20 | 9.7 | <0.1 | 45 | 43 |
| BH17_0.1 | 0.1 | 0.1 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 4.1 | <0.4 | 45 | 20 | 65 | <0.1 | 21 | 75 |
| BH17_0.3 | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 3.1 | <0.4 | 8.9 | 23 | 75 | <0.1 | 5.1 | 130 |
| **QC09_210903 (DUP BH17_0.3)** | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 4 | <0.4 | 8.9 | 15 | 78 | <0.1 | <5 | 120 |
| QC10_210903 (TRIP BH17_0.3) | 0.3 | 0.3 | Area 2B | 3/09/2021 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | | <0.5 | <0.5 | <0.5 | <5 | <1 | 6 | 74 | 87 | <0.1 | 9 | 131 |
| BH17_0.5 | 0.5 | 0.5 | Area 2B | 3/09/2021 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2 | <0.4 | <5 | 16 | 8 | <0.1 | <5 | 14 |
| BH18_0.1 | 0.1 | 0.1 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 5 | <0.4 | 51 | 18 | 37 | <0.1 | 25 | 79 |
| BH18_0.3 | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | <2 | <0.4 | 24 | 22 | 29 | <0.1 | 15 | 39 |
| BH18_0.5 | 0.5 | 0.5 | Area 2B | 3/09/2021 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 23 | <0.4 | 39 | 14 | 27 | <0.1 | 14 | 31 |
| BH19_0.1 | 0.1 | 0.1 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 5.5 | <0.4 | 21 | 19 | 76 | <0.1 | 9.4 | 97 |
| BH19_0.3 | 0.3 | 0.3 | Area 2B | 3/09/2021 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 3.5 | <0.4 | 53 | 25 | 110 | <0.1 | 20 | 100 |
| **QC01_210903 (DUP BH19_0.3)** | 0.3 | 0.3 | Area 2B | 3/09/2021 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 2.6 | <0.4 | 39 | 15 | 65 | <0.1 | 9.7 | 62 |
| QC02_210903 (TRIP BH19_0.3) | 0.3 | 0.3 | Area 2B | 3/09/2021 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | | <0.5 | <0.5 | <0.5 | <5 | <1 | 16 | 14 | 86 | <0.1 | 8 | 64 |
| BH19_0.5 | 0.5 | 0.5 | Area 2B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 2.2 | <0.4 | 73 | 7.6 | 11 | <0.1 | 14 | 21 |
| BH20_0.1 | 0.1 | 0.1 | Area 2A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 3.3 | <0.4 | 48 | 32 | 68 | <0.1 | 9.9 | 88 |
| BH20_0.3 | 0.3 | 0.3 | Area 2A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 3.4 | <0.4 | 72 | 20 | 20 | <0.1 | 22 | 39 |
| BH20_0.5 | 0.5 | 0.5 | Area 2A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 3.2 | <0.4 | 100 | 18 | <5 | <0.1 | 41 | 27 |
| BH21_0.1 | 0.1 | 0.1 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | <2 | <0.4 | 7.8 | <5 | 8.5 | <0.1 | <5 | 31 |
| BH21_0.3 | 0.3 | 0.3 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 12 | <0.4 | 170 | 30 | 120 | <0.1 | 61 | 160 |
| BH21_0.5 | 0.5 | 0.5 | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | 11 | <0.4 | 180 | 28 | <5 | <0.1 | 84 | 34 |
| SLAG-1 | SLAG-1 | SLAG-1 | SLAG | 3/09/2021 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2 | <0.4 | <5 | <5 | 10 | <0.1 | <5 | 19 |
| SLAG-2 | SLAG-2 | SLAG-2 | SLAG | 3/09/2021 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2 | <0.4 | <5 | <5 | <5 | <0.1 | <5 | <5 |
| BH01_CONCRETE | CONCRETE | CONCRETE | Area 4A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH03_CONCRETE | CONCRETE | CONCRETE | Area 4A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH05_CONCRETE | CONCRETE | CONCRETE | Area 4A | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH06_CONCRETE | CONCRETE | CONCRETE | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH07_CONCRETE | CONCRETE | CONCRETE | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH08_CONCRETE | CONCRETE | CONCRETE | Area 4B | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH09_CONCRETE | CONCRETE | CONCRETE | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH10_CONCRETE | CONCRETE | CONCRETE | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH11_CONCRETE | CONCRETE | CONCRETE | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH21_CONCRETE | CONCRETE | CONCRETE | Area 1 | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**DVA Greenslopes Soil Data**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Sampled_Date | TRH | | | | BTEX | | | | | | | Ot | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | C6-C10 | C10-C16 | C16-C34 | C34-C40 | Benzene | Toluene | Ethyl benzene | Xylene (m & p) | Xylene (o) | Xylenes | Total BTEX | CEC | pH |
| Units | - | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | | |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | | | | | | | |
| SS01 | 0 | 0.1 | Area 2B | 16/07/2013 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | | | |
| SS02 | 0 | 0.1 | Area 1 | 16/07/2013 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | | | |
| SS03 | 0 | 0.1 | Area 2A | 16/07/2013 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | | | |
| SS04 | 0 | 0.1 | Area 2A | 16/07/2013 | <20 | <50 | 260 | <100 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | | | |
| SA01/A01 | 0 | 0.1 | Area 2A | 25/09/2013 | | | | | | | | | | | | | |
| SA02/A02 | 0 | 0.1 | Area 2A | 25/09/2013 | | | | | | | | | | | | | |
| SA03/A03 | 0 | 0.1 | Area 2A | 25/09/2013 | | | | | | | | | | | | | |
| SA04/A04 | 0 | 0.1 | Area 2A | 25/09/2013 | | | | | | | | | | | | | |
| SA05/A05 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | |
| SA06/A06 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | |
| SA06/A06 | 0.3 | 0.4 | Area 2B | 25/09/2013 | | | | | | | | | | | | | |
| SA07/A07 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | |
| SA08/A08 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | |
| SA09/A09 | 0 | 0.1 | Area 1 | 25/09/2013 | | | | | | | | | | | | | |
| SA10/A10 | 0 | 0.1 | Area 1 | 25/09/2013 | | | | | | | | | | | | | |
| SA11/A11 | 0 | 0.1 | Area 1 | 25/09/2013 | | | | | | | | | | | | | |
| SA13/A13 | 0 | 0.1 | Area 1 | 25/09/2013 | | | | | | | | | | | | | |
| Main Hall (under building) | 0 | 0 | Area 2B | 25/09/2013 | | | | | | | | | | | | | |
| Accomodation Building (under building) | 0 | 0 | Area 1 | 25/09/2013 | | | | | | | | | | | | | |
| Unsealed External Areas | 0 | 0.01 | | 25/09/2013 | | | | | | | | | | | | | |
| A01, A04, A10 | 0.15 | 0.15 | | 25/09/2013 | | | | | | | | | | | | | |
| A06, A10 | 0.15 | 0.15 | | 25/09/2013 | | | | | | | | | | | | | |
| HA01 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | |
| HA02 | 0 | 0.1 | Area 3 | 25/09/2013 | | | | | | | | | | | | | |
| HA03 | 0 | 0.1 | Area 3 | 25/09/2013 | | | | | | | | | | | | | |
| HA04 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | |
| HA05 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | | |
| QC01 (DUP HA05) | 0 | 0.1 | Area 2B | 26/09/2013 | | | | | | | | | | | | | |
| QC01A (TRIP HA05) | 0 | 0.1 | Area 2B | 26/09/2013 | | | | | | | | | | | | | |
| HA06/SA11 | 0 | 0.1 | Area 2A | 25/09/2013 | | | | | | | | | | | | | |
| HA07/SA12 | 0 | 0.1 | Area 1 | 25/09/2013 | | | | | | | | | | | | 30 | 5.8 |
| HA08/SA13 | 0 | 0.1 | Area 1 | 25/09/2013 | | | | | | | | | | | | | |
| HA09 | 0 | 0.2 | Area 1 | 25/09/2013 | | | | | | | | | | | | | |
| HA10 | 0 | 0.2 | Area 1 | 25/09/2013 | | | | | | | | | | | | | |
| HA11 | 0 | 0.1 | Area 2B | 25/09/2013 | | | | | | | | | | | | 25 | 6.3 |
| 1-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | |
| 1-0.3 | 0.3 | 0.3 | Area 2B | 1/10/2019 | | | | | | | | | | | | | |

**DVA Greenslopes Soil Data**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Sampled_Date | TRH | | | | BTEX | | | | | | | Ot | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | C6-C10 | C10-C16 | C16-C34 | C34-C40 | Benzene | Toluene | Ethyl benzene | Xylene (m & p) | Xylene (o) | Xylenes | Total BTEX | CEC | pH |
| Units | - | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | | |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | | | | | | | |
| 2-0.0 | 0 | 0.1 | Area 3 | 1/10/2019 | | | | | | | | | | | | | |
| QC01 (DUP 2-0.0) | 0 | 0.1 | Area 3 | 1/10/2019 | | | | | | | | | | | | | |
| QC02 (TRIP 2-0.0) | 0 | 0.1 | Area 3 | 1/10/2019 | | | | | | | | | | | | | |
| 2-0.3 | 0.3 | 0.3 | Area 3 | 1/10/2019 | | | | | | | | | | | | | |
| QC03 (DUP 2-0.3) | 0.3 | 0.3 | Area 3 | 1/10/2019 | | | | | | | | | | | | | |
| QC04 (TRIP 2-0.3) | 0.3 | 0.3 | Area 3 | 1/10/2019 | | | | | | | | | | | | | |
| 3-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | |
| 3-0.35 | 0.35 | 0.35 | Area 2B | 1/10/2019 | | | | | | | | | | | | | |
| 4-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | |
| 4-0.35 | 0.35 | 0.35 | Area 2B | 1/10/2019 | | | | | | | | | | | | | |
| 5-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | |
| 5-0.35 | 0.35 | 0.35 | Area 2B | 1/10/2019 | | | | | | | | | | | | | |
| 6-0.0 | 0 | 0.1 | Area 3 | 1/10/2019 | | | | | | | | | | | | | |
| 6-0.45 | 0.45 | 0.45 | Area 3 | 1/10/2019 | | | | | | | | | | | | | |
| 6P-0.0 (HA02) | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | |
| 6P-0.3 (HA02) | 0.3 | 0.3 | Area 2B | 1/10/2019 | | | | | | | | | | | | | |
| 7-0.0 | 0 | 0.1 | Area 3 | 1/10/2019 | | | | | | | | | | | | | |
| 7-0.45 | 0.45 | 0.45 | Area 3 | 1/10/2019 | | | | | | | | | | | | | |
| 7P-0.0 (HA03) | 0 | 0.1 | Area 3 | 1/10/2019 | | | | | | | | | | | | | |
| 7P-0.25 (HA03) | 0.25 | 0.25 | Area 3 | 1/10/2019 | | | | | | | | | | | | | |
| 8-0.0 | 0 | 0 | Area 1 | 1/10/2019 | | | | | | | | | | | | | |
| 8-0.42 | 0.42 | 0.42 | Area 1 | 1/10/2019 | | | | | | | | | | | | | |
| 9-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | |
| 9-0.42 | 0.42 | 0.42 | Area 1 | 1/10/2019 | | | | | | | | | | | | | |
| 9P-0.0 (HA09) | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | |
| 9P-0.45 (HA09) | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | | | | | | | | | | |
| 10-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | |
| 10-0.45 | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | | | | | | | | | | |
| 11-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | |
| 11-0.45 | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | | | | | | | | | | |
| 12-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | |
| 12-0.25 | 0.25 | 0.25 | Area 1 | 1/10/2019 | | | | | | | | | | | | | |
| 13P-0.0 (HA07) | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | |
| 13P-0.2 (HA07) | 0.2 | 0.2 | Area 1 | 1/10/2019 | | | | | | | | | | | | | |
| 14-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | |
| 14-0.45 | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | | | | | | | | | | |
| 14P-0.0 (HA10) | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | |

**DVA Greenslopes Soil Data**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Sampled_Date | TRH | | | | BTEX | | | | | | | Ot | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | C6-C10 | C10-C16 | C16-C34 | C34-C40 | Benzene | Toluene | Ethyl benzene | Xylene (m & p) | Xylene (o) | Xylenes | Total BTEX | CEC | pH |
| Units | - | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | | |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | | | | | | | |
| QC07 (DUP 14P-0.0 ) | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | |
| QC08 (TRIP 14P-0.0 ) | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | |
| 14P-0.42 (HA10) | 0.42 | 0.42 | Area 1 | 1/10/2019 | | | | | | | | | | | | | |
| QC09 (DUP 14P-0.42) | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | |
| QC10 (TRIP 14P-0.42) | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | |
| 15-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | |
| 16-0.0 | 0 | 0.1 | Area 1 | 1/10/2019 | | | | | | | | | | | | | |
| 16-0.45 | 0.45 | 0.45 | Area 1 | 1/10/2019 | | | | | | | | | | | | | |
| 17-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | |
| 17-0.25 | 0.25 | 0.25 | Area 2B | 1/10/2019 | | | | | | | | | | | | | |
| 18-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | |
| 18-0.2 | 0.2 | 0.2 | Area 2B | 1/10/2019 | | | | | | | | | | | | | |
| 32-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | |
| 34-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | |
| 36-0.0 | 0 | 0.1 | Area 2B | 1/10/2019 | | | | | | | | | | | | | |
| BH01_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | | | | | | | | | | | | | |
| BH02_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | | | | | | | | | | | | | |
| BH03_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | | | | | | | | | | | | | |
| BH04_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | | | | | | | | | | | | | |
| BH05_0.1 | 0.1 | 0.1 | Area 4A | 3/09/2021 | | | | | | | | | | | | | |
| BH06_0.1 | 0.1 | 0.1 | Area 4B | 3/09/2021 | | | | | | | | | | | | | |
| BH06_0.3 | 0.3 | 0.3 | Area 4B | 3/09/2021 | | | | | | | | | | | | | |
| BH06_0.5 | 0.5 | 0.5 | Area 4B | 3/09/2021 | | | | | | | | | | | | | |
| BH07_0.1 | 0.1 | 0.1 | Area 4B | 3/09/2021 | | | | | | | | | | | | | |
| BH07_0.3 | 0.3 | 0.3 | Area 4B | 3/09/2021 | | | | | | | | | | | | | |
| BH08_0.1 | 0.1 | 0.1 | Area 4B | 3/09/2021 | | | | | | | | | | | | | |
| BH08_0.3 | 0.3 | 0.3 | Area 1 | 3/09/2021 | | | | | | | | | | | | | |
| BH12_0.1 | 0.1 | 0.1 | Area 2B | 3/09/2021 | | | | | | | | | | | | | |
| BH13_0.1 | 0.1 | 0.1 | Area 1 | 3/09/2021 | | | | | | | | | | | | | |
| BH14_0.1 | 0.1 | 0.1 | Area 1 | 3/09/2021 | | | | | | | | | | | | | |
| BH14_0.3 | 0.3 | 0.3 | Area 1 | 3/09/2021 | | | | | | | | | | | | | |
| BH14_0.5 | 0.5 | 0.5 | Area 1 | 3/09/2021 | | | | | | | | | | | | | |
| BH15_0.1 | 0.1 | 0.1 | Area 1 | 3/09/2021 | | | | | | | | | | | | | |
| BH15_0.3 | 0.3 | 0.3 | Area 1 | 3/09/2021 | | | | | | | | | | | | | |
| BH15_0.5 | 0.5 | 0.5 | Area 1 | 3/09/2021 | | | | | | | | | | | | | |
| BH16_0.1 | 0.1 | 0.1 | Area 4B | 3/09/2021 | | | | | | | | | | | | | |
| BH16_0.3 | 0.3 | 0.3 | Area 4B | 3/09/2021 | | | | | | | | | | | | | |

**DVA Greenslopes Soil Data**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Sampled_Date | TRH | | | | BTEX | | | | | | | Ot | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | C6-C10 | C10-C16 | C16-C34 | C34-C40 | Benzene | Toluene | Ethyl benzene | Xylene (m & p) | Xylene (o) | Xylenes | Total BTEX | CEC | pH |
| Units | - | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | | |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | | | | | | | |
| BH16_0.5 | 0.5 | 0.5 | Area 4B | 3/09/2021 | | | | | | | | | | | | | |
| BH17_0.1 | 0.1 | 0.1 | Area 2B | 3/09/2021 | | | | | | | | | | | | | |
| BH17_0.3 | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | | | | | | | | | | |
| **QC09_210903 (DUP BH17_0.3)** | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | | | | | | | | | | |
| QC10_210903 (TRIP BH17_0.3) | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | | | | | | | | | | |
| BH17_0.5 | 0.5 | 0.5 | Area 2B | 3/09/2021 | | | | | | | | | | | | | |
| BH18_0.1 | 0.1 | 0.1 | Area 2B | 3/09/2021 | | | | | | | | | | | | | |
| BH18_0.3 | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | | | | | | | | | | |
| BH18_0.5 | 0.5 | 0.5 | Area 2B | 3/09/2021 | | | | | | | | | | | | | |
| BH19_0.1 | 0.1 | 0.1 | Area 2B | 3/09/2021 | | | | | | | | | | | | | |
| BH19_0.3 | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | | | | | | | | | | |
| **QC01_210903 (DUP BH19_0.3)** | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | | | | | | | | | | |
| QC02_210903 (TRIP BH19_0.3) | 0.3 | 0.3 | Area 2B | 3/09/2021 | | | | | | | | | | | | | |
| BH19_0.5 | 0.5 | 0.5 | Area 2B | 3/09/2021 | | | | | | | | | | | | | |
| BH20_0.1 | 0.1 | 0.1 | Area 2A | 3/09/2021 | | | | | | | | | | | | | |
| BH20_0.3 | 0.3 | 0.3 | Area 2A | 3/09/2021 | | | | | | | | | | | | | |
| BH20_0.5 | 0.5 | 0.5 | Area 2A | 3/09/2021 | | | | | | | | | | | | | |
| BH21_0.1 | 0.1 | 0.1 | Area 1 | 3/09/2021 | | | | | | | | | | | | | |
| BH21_0.3 | 0.3 | 0.3 | Area 1 | 3/09/2021 | | | | | | | | | | | | | |
| BH21_0.5 | 0.5 | 0.5 | Area 1 | 3/09/2021 | | | | | | | | | | | | | |
| SLAG-1 | SLAG-1 | SLAG-1 | SLAG | 3/09/2021 | | | | | | | | | | | | | |
| SLAG-2 | SLAG-2 | SLAG-2 | SLAG | 3/09/2021 | | | | | | | | | | | | | |
| BH01_CONCRETE | CONCRETE | CONCRETE | Area 4A | 3/09/2021 | | | | | | | | | | | | | |
| BH03_CONCRETE | CONCRETE | CONCRETE | Area 4A | 3/09/2021 | | | | | | | | | | | | | |
| BH05_CONCRETE | CONCRETE | CONCRETE | Area 4A | 3/09/2021 | | | | | | | | | | | | | |
| BH06_CONCRETE | CONCRETE | CONCRETE | Area 4B | 3/09/2021 | | | | | | | | | | | | | |
| BH07_CONCRETE | CONCRETE | CONCRETE | Area 4B | 3/09/2021 | | | | | | | | | | | | | |
| BH08_CONCRETE | CONCRETE | CONCRETE | Area 4B | 3/09/2021 | | | | | | | | | | | | | |
| BH09_CONCRETE | CONCRETE | CONCRETE | Area 1 | 3/09/2021 | | | | | | | | | | | | | |
| BH10_CONCRETE | CONCRETE | CONCRETE | Area 1 | 3/09/2021 | | | | | | | | | | | | | |
| BH11_CONCRETE | CONCRETE | CONCRETE | Area 1 | 3/09/2021 | | | | | | | | | | | | | |
| BH21_CONCRETE | CONCRETE | CONCRETE | Area 1 | 3/09/2021 | | | | | | | | | | | | | |

## DVA Greenslopes Soil Data - TCLP

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Sampled_Date | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | Metals | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 4.4'-DDD | 4.4'-DDE | 4.4'-DDT | a-HCH | Aldrin | Aldrin + Dieldrin | b-HCH | Chlordane - Total | DDT + DDE + DDD | d-HCH | Dieldrin | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | Endrin aldehyde | Endrin ketone | g-HCH (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Vic EPA IWRG 621 OCP (Total)* | Vic EPA IWRG 621 Other OCP (Total)* | Chromium | Lead | Zinc |
| Units | - | - | - | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | 2 | | 0.03 | | | 0.1 | | | 0.03 | | | | 0.03 | | | 2 | 0.03 | | | 30 | 0.05 | | | 5 | 5 | 500 |
| BH06_0.5 | 0.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | < 0.01 | | |
| BH07_0.3 | 0.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | < 0.01 | | |
| BH08_0.3 | 0.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | < 0.01 | | |
| BH13_0.1 | 0.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.11 | 0.9 |
| BH14_0.1 | 0.1 | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 | <0.001 | <0.005 | <0.001 | <0.001 | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | 0.1 | 1.1 |
| BH14_0.3 | 0.3 | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| BH15_0.1 | 0.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.07 | 0.66 |
| BH16_0.1 | 0.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.12 | 0.84 |
| BH16_0.5 | 0.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | < 0.01 | | |
| BH19_0.3 | 0.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.03 | 0.25 |
| BH21_0.1 | 0.1 | | | <0.001 | <0.001 | <0.001 | <0.001 | 0.002 | 0.006 | <0.001 | <0.005 | <0.001 | <0.001 | 0.004 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | 0.006 | <0.005 | | | |
| BH21_0.3 | 0.3 | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | < 0.01 | < 0.01 | 0.06 |
| BH21_0.5 | 0.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | < 0.01 | | |
| BH21_CONCRETE | CONCRETE | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| 6P-0.0 (HA02) | 0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| 7P-0.0 (HA03) | 0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| 8-0.0 | 0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.002 | <0.001 | <0.005 | <0.001 | <0.001 | 0.002 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| 9-0.0 | 0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.01 | <0.001 | <0.005 | <0.001 | <0.001 | 0.01 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | 0.01 | <0.005 | | | |
| 9P-0.0 (HA09) | 0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 | <0.001 | <0.005 | <0.001 | <0.001 | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| 10-0.0 | 0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.004 | <0.001 | <0.005 | <0.001 | <0.001 | 0.004 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| 11-0.0 | 0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.02 | <0.001 | <0.005 | <0.001 | <0.001 | 0.02 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | 0.02 | <0.005 | | | |
| 13P-0.0 (HA07) | 0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| 14P-0.0 (HA10) | 0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.003 | <0.001 | <0.005 | <0.001 | <0.001 | 0.003 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| 15-0.0 | 0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.002 | <0.001 | <0.005 | <0.001 | <0.001 | 0.002 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| 34-0.0 | 0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.012 | <0.001 | <0.005 | <0.001 | <0.001 | 0.012 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | 0.012 | <0.005 | | | |
| 36-0.0 | 0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.004 | <0.001 | <0.005 | <0.001 | <0.001 | 0.004 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |

# APPENDIX D: LABORATORY REPORTS

| | |
|---|---|
| **Project ID:** | 754-BNEEN282781 DVA Greenslopes |
| **Site:** | 114 Newdegate Street Greenslopes |

| | | | | |
|---|---|---|---|---|
| **Contact:** | Jeremy Wicks | **Quote No:** | Coffey | **Comments:** |
| **Office:** | 12 Creek Street Brisbane QLD 4000 | **Results Required:** | 9/13/2021 | QC02_210903 and QC10_210903 to be sent to ALS for Analysis. |
| **Email:** | jeremy.wicks@coffey.com | **Report Format:** | Email | Wash soil material from concrete core prior to crushing/analysis |
| **Phone:** | 0435 956 733 | **Turn Around** | Standard turnaround | |

| SAMPLE INFORMATION | | | | | CONTAINER | | ANALYTICAL REQUIREMENTS | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LAB ID | Sample ID | Matrix Type S: Soil W: Water | Date | Time | Type / Code | Total Bottles | M8 8-Metals (As, Cd, Cr, Cu, Pb, Ni, Zn, | OCP | PAH | Asbestos ID in Soil (presence/absence) | Asbestos ID in Soil (NEPM WA Guidelines) | Concrete Crush / Preparation | | | | | | | | | | | | | |
| | BH01_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | | | | | | | | | | | | | |
| | BH01_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | | | | | | | | | | | | | | | |
| | BH01_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | | | | | | | | | | | | | | | |
| | BH02_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | | | | | | | | | | | | | |
| | BH02_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | | | | | | | | | | | | | | | |
| | BH02_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | | | | | | | | | | | | | | | |
| | BH03_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | | | | | | | | | | | | | |
| | BH03_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | | | | | | | | | | | | | | | |
| | BH03_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | | | | | | | | | | | | | | | |
| | BH04_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | | | | | | | | | | | | | |
| | BH04_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | | | | | | | | | | | | | | | |
| | BH04_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | | | | | | | | | | | | | | | |
| | BH05_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | | | | | | | | | | | | | |
| | BH05_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | | | | | | | | | | | | | | | |
| | BH05_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | | | | | | | | | | | | | | | |
| | BH06_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | | | | | | | | | | | | | |
| | BH06_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | x | x | | | | | | | | | | | | | | | |
| | BH06_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | | | | | | | | | | | | | |
| | BH07_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | x | | | | | | | | | | | | | | | |
| | BH07_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | | | | | | | | | | | | | |
| | BH07_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | | | | | | | | | | | | | | | |
| | BH08_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | | | | | | | | | | | | | |
| | BH08_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | | | | | | | | | | | | | |
| | BH08_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | | | | | | | | | | | | | | | |
| | BH12_0.1 | Soil | 08-Sep-21 | | jar/asb bag | 2 | x | x | | x | | | | | | | | | | | | | | | |
| | BH13_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | x | | | | | | | | | | | | | | | |
| | BH14_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | x | | | | | | | | | | | | | | | |
| | BH14_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | | | | | | | | | | | | | |
| | BH14_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | | | | | | | | | | | | | |
| | BH15_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | | | | | | | | | | | | | |
| | BH15_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | | | | | | | | | | | | | |
| | BH15_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | | | | | | | | | | | | | |
| | BH16_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | x | | | | | | | | | | | | | | | |
| | BH16_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | | | | | | | | | | | | | |
| | BH16_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | | | | | | | | | | | | | |
| | BH17_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | x | | | | | | | | | | | | | | | |
| | BH17_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | | | | | | | | | | | | | |
| | BH17_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | x | | | | | | | | | | | | | | | | |
| | BH18_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | x | | | | | | | | | | | | | | | |
| | BH18_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | | | | | | | | | | | | | |
| | BH18_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | x | | | | | | | | | | | | | | | | |
| | BH19_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | x | | | | | | | | | | | | | | | |
| | BH19_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | x | | | | | | | | | | | | | | | | |
| | BH19_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | | | | | | | | | | | | | |
| | BH20_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | x | | | | | | | | | | | | | | | |
| | BH20_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | | | | | | | | | | | | | |
| | BH20_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | | | | | | | | | | | | | |
| | BH21_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | | | | | | | | | | | | | |
| | BH21_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | | | | | | | | | | | | | |
| | BH21_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | | | | | | | | | | | | | |
| | Slag-1 | Soil | 03-Sep-21 | | jar | 1 | x | | x | | | | | | | | | | | | | | | | |
| | Slag-2 | Soil | 03-Sep-21 | | jar | 1 | x | | x | | | | | | | | | | | | | | | | |
| | BH01_Concrete | Concrete | 03-Sep-21 | | Bag | 1 | | x | | | | x | | | | | | | | | | | | | |
| | BH02_Concrete | Concrete | 03-Sep-21 | | Bag | 1 | | | | | | | | | | | | | | | | | | | |
| | BH03_Concrete | Concrete | 03-Sep-21 | | Bag | 1 | | x | | | | x | | | | | | | | | | | | | |
| | BH04_Concrete | Concrete | 03-Sep-21 | | Bag | 1 | | | | | | | | | | | | | | | | | | | |
| | BH05_Concrete | Concrete | 03-Sep-21 | | Bag | 1 | | x | | | | x | | | | | | | | | | | | | |
| | BH06_Concrete | Concrete | 03-Sep-21 | | Bag | 1 | | x | | | | x | | | | | | | | | | | | | |
| | BH07_Concrete | Concrete | 03-Sep-21 | | Bag | 1 | | x | | | | x | | | | | | | | | | | | | |
| | BH08_Concrete | Concrete | 03-Sep-21 | | Bag | 1 | | x | | | | x | | | | | | | | | | | | | |
| | BH09_Concrete | Concrete | 03-Sep-21 | | Bag | 1 | | x | | | | x | | | | | | | | | | | | | |
| | BH10_Concrete | Concrete | 03-Sep-21 | | Bag | 1 | | x | | | | x | | | | | | | | | | | | | |
| | BH11_Concrete | Concrete | 03-Sep-21 | | Bag | 1 | | x | | | | x | | | | | | | | | | | | | |
| | BH21_Concrete | Concrete | 03-Sep-21 | | Bag | 1 | | x | | | | x | | | | | | | | | | | | | |
| | QC01_210903 | Soil | 03-Sep-21 | | Jar | 1 | x | x | x | | | | | | | | | | | | | | | | |
| | QC02_210903 | Soil | 03-Sep-21 | | Jar | 1 | x | x | x | | | | | | | | | | | | | | | | |
| | QC03_210903 | Soil | 03-Sep-21 | | Jar | 1 | | | | | | | | | | | | | | | | | | | |
| | QC04_210903 | Soil | 03-Sep-21 | | Jar | 1 | | | | | | | | | | | | | | | | | | | |
| | QC05_210903 | Soil | 03-Sep-21 | | Jar | 1 | | | | | | | | | | | | | | | | | | | |
| | QC06_210903 | Soil | 03-Sep-21 | | Jar | 1 | | | | | | | | | | | | | | | | | | | |
| | QC07_210903 | Soil | 03-Sep-21 | | Jar | 1 | | | | | | | | | | | | | | | | | | | |
| | QC08_210903 | Soil | 03-Sep-21 | | Jar | 1 | | | | | | | | | | | | | | | | | | | |
| | QC09_210903 | Soil | 03-Sep-21 | | Jar | 1 | x | x | | | | | | | | | | | | | | | | | |
| | QC10_210903 | Soil | 03-Sep-21 | | Jar | 1 | x | x | | | | | | | | | | | | | | | | | |
| | QC11_210903 | Soil | 03-Sep-21 | | Jar | 1 | | | | | | | | | | | | | | | | | | | |
| | QC12_210903 | Soil | 03-Sep-21 | | Jar | 1 | | | | | | | | | | | | | | | | | | | |
| | QC13_210903 | Water | 03-Sep-21 | | V/AG/P | 4 | x | x | x | | | | | | | | | | | | | | | | |
| | QC14_210903 | Water | 03-Sep-21 | | V/AG/P | 4 | x | x | x | | | | | | | | | | | | | | | | |
| | trip blank | Soil | | | Jar | 1 | x | x | x | | | | | | | | | | | | | | | | |
| TOTAL SAMPLES | | | | | | | 47 | | 11 | 10 | | 10 | | | | | | | | | | | | | |

6/9/21 3:51pm

Sarah K

822538

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IANZ # 1290

# Sample Receipt Advice

| | |
|---|---|
| **Company name:** | Coffey Environments Pty Ltd QLD |
| **Contact name:** | Jeremy Wicks |
| **Project name:** | 754-BNEEN282781 DVA GREENSLOPES |
| **Project ID:** | Not provided |
| **Turnaround time:** | 5 Day |
| **Date/Time received** | Sep 6, 2021 3:51 PM |
| **Eurofins reference** | 822538 |

## Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : .2 degrees Celsius.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✓ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✓ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

## Notes

QC02 and QC10 will be sent to ALS. The sample BH02_0.3 was received labelled on the jar as BH02_1.3. The sample ID from the COC was used - please advise if this is incorrect. Additional sample "Spike 1" was received and has been placed on hold - please advise if testing is required.

## Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

**Alana Wadsworth on phone : or by email: alanawadsworth@eurofins.com**

Results will be delivered electronically via email to Jeremy Wicks - Jeremy.Wicks@coffey.com.

*Note: A copy of these results will also be delivered to the general Coffey Environments Pty Ltd QLD email address.*

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**Address:** Level 5, 12 Creek Street
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QLD 4000

**Project Name:** 754-BNEEN282781 DVA GREENSLOPES

**Order No.:**
**Report #:** 822538
**Phone:** 07 3503 7192
**Fax:**

**Received:** Sep 6, 2021 3:51 PM
**Due:** Sep 13, 2021
**Priority:** 5 Day
**Contact Name:** Jeremy Wicks

**Eurofins Analytical Services Manager : Alana Wadsworth**

| Sample Detail | | | | | | Asbestos - AS4964 | HOLD | Sample preparation - crushing | Polycyclic Aromatic Hydrocarbons | Organochlorine Pesticides | Organophosphorus Pesticides | Metals M8 | Moisture Set | BTEXN and Volatile TRH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X | X | X | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | | | | | | | | | |
| 1 | BH01_0.1 | Sep 03, 2021 | | Soil | B21-Se11788 | | | | | X | X | X | X | |
| 2 | BH02_0.1 | Sep 03, 2021 | | Soil | B21-Se11789 | | | | | X | X | X | X | |
| 3 | BH03_0.1 | Sep 03, 2021 | | Soil | B21-Se11790 | | | | | X | X | X | X | |
| 4 | BH04_0.1 | Sep 03, 2021 | | Soil | B21-Se11791 | | | | | X | X | X | X | |
| 5 | BH05_0.1 | Sep 03, 2021 | | Soil | B21-Se11792 | | | | | X | X | X | X | |
| 6 | BH06_0.1 | Sep 03, 2021 | | Soil | B21-Se11793 | | | | | X | X | X | X | |
| 7 | BH06_0.3 | Sep 03, 2021 | | Soil | B21-Se11794 | X | | | X | X | X | X | X | |
| 8 | BH06_0.5 | Sep 03, 2021 | | Soil | B21-Se11795 | | | | | X | X | X | X | |
| 9 | BH07_0.1 | Sep 03, 2021 | | Soil | B21-Se11796 | X | | | | X | X | X | X | |
| 10 | BH07_0.3 | Sep 03, 2021 | | Soil | B21-Se11797 | | | | | X | X | X | X | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X | X | X | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| 11 | BH08_0.1 | Sep 03, 2021 | | Soil | B21-Se11798 | | | | | X | X | X | X | |
| 12 | BH08_0.3 | Sep 03, 2021 | | Soil | B21-Se11799 | | | | | X | X | X | X | |
| 13 | BH12_0.1 | Sep 03, 2021 | | Soil | B21-Se11800 | X | | | | X | X | X | X | |
| 14 | BH13_0.1 | Sep 03, 2021 | | Soil | B21-Se11801 | X | | | | X | X | X | X | |
| 15 | BH14_0.1 | Sep 03, 2021 | | Soil | B21-Se11802 | X | | | | X | X | X | X | |
| 16 | BH14_0.3 | Sep 03, 2021 | | Soil | B21-Se11803 | | | | | X | X | X | X | |
| 17 | BH14_0.5 | Sep 03, 2021 | | Soil | B21-Se11804 | | | | | X | X | X | X | |
| 18 | BH15_0.1 | Sep 03, 2021 | | Soil | B21-Se11805 | | | | | X | X | X | X | |
| 19 | BH15_0.3 | Sep 03, 2021 | | Soil | B21-Se11806 | | | | | X | X | X | X | |
| 20 | BH15_0.5 | Sep 03, 2021 | | Soil | B21-Se11807 | | | | | X | X | X | X | |
| 21 | BH16_0.1 | Sep 03, 2021 | | Soil | B21-Se11808 | X | | | | X | X | X | X | |

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**Project Name:** 754-BNEEN282781 DVA GREENSLOPES

**Eurofins Analytical Services Manager : Alana Wadsworth**

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X | X | X | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| 22 | BH16_0.3 | Sep 03, 2021 | | Soil | B21-Se11809 | | | | | X | X | X | X | |
| 23 | BH16_0.5 | Sep 03, 2021 | | Soil | B21-Se11810 | | | | | X | X | X | X | |
| 24 | BH17_0.1 | Sep 03, 2021 | | Soil | B21-Se11811 | X | | | | X | X | X | X | |
| 25 | BH17_0.3 | Sep 03, 2021 | | Soil | B21-Se11812 | | | | | X | X | X | X | |
| 26 | BH17_0.5 | Sep 03, 2021 | | Soil | B21-Se11813 | | | | X | X | X | X | X | |
| 27 | BH18_0.1 | Sep 03, 2021 | | Soil | B21-Se11814 | X | | | | X | X | X | X | |
| 28 | BH18_0.3 | Sep 03, 2021 | | Soil | B21-Se11815 | | | | | X | X | X | X | |
| 29 | BH18_0.5 | Sep 03, 2021 | | Soil | B21-Se11816 | | | | X | X | X | X | X | |
| 30 | BH19_0.1 | Sep 03, 2021 | | Soil | B21-Se11817 | X | | | | X | X | X | X | |
| 31 | BH19_0.3 | Sep 03, 2021 | | Soil | B21-Se11818 | | | | X | X | X | X | X | |
| 32 | BH19_0.5 | Sep 03, 2021 | | Soil | B21-Se11819 | | | | | X | X | X | X | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X | X | X | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| 33 | BH20_0.1 | Sep 03, 2021 | | Soil | B21-Se11820 | X | | | | X | X | X | X | |
| 34 | BH20_0.3 | Sep 03, 2021 | | Soil | B21-Se11821 | | | | | X | X | X | X | |
| 35 | BH20_0.5 | Sep 03, 2021 | | Soil | B21-Se11822 | | | | | X | X | X | X | |
| 36 | BH21_0.1 | Sep 03, 2021 | | Soil | B21-Se11823 | | | | | X | X | X | X | |
| 37 | BH21_0.3 | Sep 03, 2021 | | Soil | B21-Se11824 | | | | | X | X | X | X | |
| 38 | BH21_0.5 | Sep 03, 2021 | | Soil | B21-Se11825 | | | | | X | X | X | X | |
| 39 | SLAG-1 | Sep 03, 2021 | | Soil | B21-Se11826 | | | | X | | X | X | X | |
| 40 | SLAG-2 | Sep 03, 2021 | | Soil | B21-Se11827 | | | | X | | X | X | X | |
| 41 | BH01_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11828 | | | X | | X | X | | X | |
| 42 | BH03_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11829 | | | X | | X | X | | X | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X | X | X | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | |
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| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| 43 | BH05_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11830 | | | X | | X | X | | X | |
| 44 | BH06_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11831 | | | X | | X | X | | X | |
| 45 | BH07_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11832 | | | X | | X | X | | X | |
| 46 | BH08_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11833 | | | X | | X | X | | X | |
| 47 | BH09_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11834 | | | X | | X | X | | X | |
| 48 | BH10_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11835 | | | X | | X | X | | X | |
| 49 | BH11_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11836 | | | X | | X | X | | X | |

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IANZ # 1327

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IANZ # 1290

**Company Name:** Coffey Environments Pty Ltd QLD
**Address:** Level 5, 12 Creek Street
Brisbane
QLD 4000

**Project Name:** 754-BNEEN282781 DVA GREENSLOPES

**Order No.:**
**Report #:** 822538
**Phone:** 07 3503 7192
**Fax:**

**Received:** Sep 6, 2021 3:51 PM
**Due:** Sep 13, 2021
**Priority:** 5 Day
**Contact Name:** Jeremy Wicks

**Eurofins Analytical Services Manager : Alana Wadsworth**

| Sample Detail | | | | | | Asbestos - AS4964 | HOLD | Sample preparation - crushing | Polycyclic Aromatic Hydrocarbons | Organochlorine Pesticides | Organophosphorus Pesticides | Metals M8 | Moisture Set | BTEXN and Volatile TRH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X | X | X | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| 50 | BH21_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11837 | | | X | | X | X | | X | |
| 51 | QC01_210903 | Sep 03, 2021 | | Soil | B21-Se11838 | | | | X | X | X | X | X | |
| 52 | QC09_210903 | Sep 03, 2021 | | Soil | B21-Se11840 | | | | | X | X | X | X | |
| 53 | QC13_210903 | Sep 03, 2021 | | Water | B21-Se11842 | | | | | X | X | X | | |
| 54 | QC14_210903 | Sep 03, 2021 | | Water | B21-Se11843 | | | | X | X | X | X | | |
| 55 | TRIP BLANK | Sep 03, 2021 | | Trip Blank (solid) | B21-Se11844 | | | | | | | | | X |
| 56 | BH01_0.3 | Sep 03, 2021 | | Soil | B21-Se11845 | | X | | | | | | | |
| 57 | BH01_0.5 | Sep 03, 2021 | | Soil | B21-Se11846 | | X | | | | | | | |
| 58 | BH02_0.3 | Sep 03, 2021 | | Soil | B21-Se11847 | | X | | | | | | | |
| 59 | BH02_0.5 | Sep 03, 2021 | | Soil | B21-Se11848 | | X | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X | X | X | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| 60 | BH03_0.3 | Sep 03, 2021 | | Soil | B21-Se11849 | | X | | | | | | | |
| 61 | BH03_0.5 | Sep 03, 2021 | | Soil | B21-Se11850 | | X | | | | | | | |
| 62 | BH04_0.3 | Sep 03, 2021 | | Soil | B21-Se11851 | | X | | | | | | | |
| 63 | BH04_0.5 | Sep 03, 2021 | | Soil | B21-Se11852 | | X | | | | | | | |
| 64 | BH05_0.3 | Sep 03, 2021 | | Soil | B21-Se11853 | | X | | | | | | | |
| 65 | BH05_0.5 | Sep 03, 2021 | | Soil | B21-Se11854 | | X | | | | | | | |
| 66 | BH07_0.5 | Sep 03, 2021 | | Soil | B21-Se11855 | | X | | | | | | | |
| 67 | BH08_0.5 | Sep 03, 2021 | | Soil | B21-Se11856 | | X | | | | | | | |
| 68 | QC03_21093 | Sep 03, 2021 | | Soil | B21-Se11857 | | X | | | | | | | |
| 69 | QC04_21093 | Sep 03, 2021 | | Soil | B21-Se11858 | | X | | | | | | | |
| 70 | QC05_21093 | Sep 03, 2021 | | Soil | B21-Se11859 | | X | | | | | | | |

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**Project Name:** 754-BNEEN282781 DVA GREENSLOPES

**Eurofins Analytical Services Manager : Alana Wadsworth**

| Sample Detail | | | | | | Asbestos - AS4964 | HOLD | Sample preparation - crushing | Polycyclic Aromatic Hydrocarbons | Organochlorine Pesticides | Organophosphorus Pesticides | Metals M8 | Moisture Set | BTEXN and Volatile TRH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X | X | X | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| 71 | QC06_21093 | Sep 03, 2021 | | Soil | B21-Se11860 | | X | | | | | | | |
| 72 | QC07_21093 | Sep 03, 2021 | | Soil | B21-Se11861 | | X | | | | | | | |
| 73 | QC08_21093 | Sep 03, 2021 | | Soil | B21-Se11862 | | X | | | | | | | |
| 74 | QC11_21093 | Sep 03, 2021 | | Soil | B21-Se11863 | | X | | | | | | | |
| 75 | QC12_21093 | Sep 03, 2021 | | Soil | B21-Se11864 | | X | | | | | | | |
| 76 | Spike 1 | Sep 03, 2021 | | Soil | B21-Se12715 | | X | | | | | | | |
| 77 | BH02_CONCRETE | Sep 03, 2021 | | Soil | B21-Se12727 | | X | | | | | | | |
| 78 | BH04_CONCRETE | Sep 03, 2021 | | Soil | B21-Se12728 | | X | | | | | | | |
| **Test Counts** | | | | | | 10 | 23 | 10 | 8 | 52 | 54 | 44 | 52 | 1 |

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# Certificate of Analysis

**NATA Accredited**
**Accreditation Number 1261**
**Site Number 1254**

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.

**Coffey Environments Pty Ltd QLD**
**Level 5, 12 Creek Street**
**Brisbane**
**QLD 4000**

| | |
|---|---|
| **Attention:** | Jeremy Wicks |
| **Report** | 822538-AID-V2 |
| **Project Name** | 754-BNEEN282781 DVA GREENSLOPES |
| **Received Date** | Sep 06, 2021 |
| **Date Reported** | Dec 20, 2021 |

## 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.<br>*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.<br>*NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.* |
| Subsampling Soil Samples | The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed.<br>*NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.* |
| Bonded asbestos-containing material (ACM) | The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004.<br>*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).<br>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).<br>*NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.* |

**Project Name** 754-BNEEN282781 DVA GREENSLOPES
**Project ID**
**Date Sampled** Sep 03, 2021
**Report** 822538-AID-V2

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|---|---|---|---|---|
| BH06_0.3 | 21-Se11794 | Sep 03, 2021 | Approximate Sample 96g<br>Sample consisted of: Brown coarse-grained clayey sandy soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| BH07_0.1 | 21-Se11796 | Sep 03, 2021 | Approximate Sample 94g<br>Sample consisted of: Brown coarse-grained clayey sandy soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| BH12_0.1 | 21-Se11800 | Sep 03, 2021 | Approximate Sample 59g<br>Sample consisted of: Brown coarse-grained clayey sandy soil, organic debris and rocks | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| BH13_0.1 | 21-Se11801 | Sep 03, 2021 | Approximate Sample 85g<br>Sample consisted of: Brown coarse-grained clayey sandy soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| BH14_0.1 | 21-Se11802 | Sep 03, 2021 | Approximate Sample 76g<br>Sample consisted of: Brown coarse-grained clayey sandy soil, organic debris and rocks | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| BH16_0.1 | 21-Se11808 | Sep 03, 2021 | Approximate Sample 43g<br>Sample consisted of: Brown coarse-grained clayey sandy soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| BH17_0.1 | 21-Se11811 | Sep 03, 2021 | Approximate Sample 59g<br>Sample consisted of: Brown coarse-grained clayey sandy soil, bitumen, organic debris and rocks | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| BH18_0.1 | 21-Se11814 | Sep 03, 2021 | Approximate Sample 81g<br>Sample consisted of: Brown coarse-grained clayey sandy soil, organic debris and rocks | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|---|---|---|---|---|
| BH19_0.1 | 21-Se11817 | Sep 03, 2021 | Approximate Sample 49g<br>Sample consisted of: Brown coarse-grained clayey sandy soil, plaster like material, organic debris and rocks | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |
| BH20_0.1 | 21-Se11820 | Sep 03, 2021 | Approximate Sample 88g<br>Sample consisted of: Brown coarse-grained clayey sandy soil and rocks | No asbestos detected at the reporting limit of 0.01% w/w.<br>Organic fibre detected.<br>No trace asbestos detected. |

## Sample History

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

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

| Description | Testing Site | Extracted | Holding Time |
|---|---|---|---|
| Asbestos - LTM-ASB-8020 | Melbourne | Sep 07, 2021 | Indefinite |

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| Sample Detail | | | | | | Asbestos - AS4964 | HOLD | Sample preparation - crushing | Polycyclic Aromatic Hydrocarbons | Organochlorine Pesticides | Organophosphorus Pesticides | Metals M8 | Moisture Set | BTEXN and Volatile TRH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X | X | X | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | |
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| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | | | | | | | | | |
| 1 | BH01_0.1 | Sep 03, 2021 | | Soil | B21-Se11788 | | | | | X | X | X | X | |
| 2 | BH02_0.1 | Sep 03, 2021 | | Soil | B21-Se11789 | | | | | X | X | X | X | |
| 3 | BH03_0.1 | Sep 03, 2021 | | Soil | B21-Se11790 | | | | | X | X | X | X | |
| 4 | BH04_0.1 | Sep 03, 2021 | | Soil | B21-Se11791 | | | | | X | X | X | X | |
| 5 | BH05_0.1 | Sep 03, 2021 | | Soil | B21-Se11792 | | | | | X | X | X | X | |
| 6 | BH06_0.1 | Sep 03, 2021 | | Soil | B21-Se11793 | | | | | X | X | X | X | |
| 7 | BH06_0.3 | Sep 03, 2021 | | Soil | B21-Se11794 | X | | | X | X | | X | X | |
| 8 | BH06_0.5 | Sep 03, 2021 | | Soil | B21-Se11795 | | | | | X | | X | X | |
| 9 | BH07_0.1 | Sep 03, 2021 | | Soil | B21-Se11796 | X | | | | X | X | X | X | |
| 10 | BH07_0.3 | Sep 03, 2021 | | Soil | B21-Se11797 | | | | | X | | X | X | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| 11 | BH08_0.1 | Sep 03, 2021 | | Soil | B21-Se11798 | | | | | X | | X | X | |
| 12 | BH08_0.3 | Sep 03, 2021 | | Soil | B21-Se11799 | | | | | X | | X | X | |
| 13 | BH12_0.1 | Sep 03, 2021 | | Soil | B21-Se11800 | X | | | | X | X | X | X | |
| 14 | BH13_0.1 | Sep 03, 2021 | | Soil | B21-Se11801 | X | | | | X | X | X | X | |
| 15 | BH14_0.1 | Sep 03, 2021 | | Soil | B21-Se11802 | X | | | | X | X | X | X | |
| 16 | BH14_0.3 | Sep 03, 2021 | | Soil | B21-Se11803 | | | | | X | | X | X | |
| 17 | BH14_0.5 | Sep 03, 2021 | | Soil | B21-Se11804 | | | | | X | | X | X | |
| 18 | BH15_0.1 | Sep 03, 2021 | | Soil | B21-Se11805 | | | | | X | X | X | X | |
| 19 | BH15_0.3 | Sep 03, 2021 | | Soil | B21-Se11806 | | | | | X | | X | X | |
| 20 | BH15_0.5 | Sep 03, 2021 | | Soil | B21-Se11807 | | | | | X | | X | X | |
| 21 | BH16_0.1 | Sep 03, 2021 | | Soil | B21-Se11808 | X | | | | X | X | X | X | |

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**Company Name:** Coffey Environments Pty Ltd QLD
**Address:** Level 5, 12 Creek Street
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QLD 4000

**Project Name:** 754-BNEEN282781 DVA GREENSLOPES

**Order No.:**
**Report #:** 822538
**Phone:** 07 3503 7192
**Fax:**

**Received:** Sep 6, 2021 3:51 PM
**Due:** Sep 13, 2021
**Priority:** 5 Day
**Contact Name:** Jeremy Wicks

**Eurofins Analytical Services Manager : Alana Wadsworth**

| Sample Detail | | | | | | Asbestos - AS4964 | HOLD | Sample preparation - crushing | Polycyclic Aromatic Hydrocarbons | Organochlorine Pesticides | Organophosphorus Pesticides | Metals M8 | Moisture Set | BTEXN and Volatile TRH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X | X | X | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| 22 | BH16_0.3 | Sep 03, 2021 | | Soil | B21-Se11809 | | | | | X | | X | X | |
| 23 | BH16_0.5 | Sep 03, 2021 | | Soil | B21-Se11810 | | | | | X | | X | X | |
| 24 | BH17_0.1 | Sep 03, 2021 | | Soil | B21-Se11811 | X | | | | X | X | X | X | |
| 25 | BH17_0.3 | Sep 03, 2021 | | Soil | B21-Se11812 | | | | | X | | X | X | |
| 26 | BH17_0.5 | Sep 03, 2021 | | Soil | B21-Se11813 | | | | X | X | | X | X | |
| 27 | BH18_0.1 | Sep 03, 2021 | | Soil | B21-Se11814 | X | | | | X | X | X | X | |
| 28 | BH18_0.3 | Sep 03, 2021 | | Soil | B21-Se11815 | | | | | X | | X | X | |
| 29 | BH18_0.5 | Sep 03, 2021 | | Soil | B21-Se11816 | | | | X | X | | X | X | |
| 30 | BH19_0.1 | Sep 03, 2021 | | Soil | B21-Se11817 | X | | | | X | | X | X | |
| 31 | BH19_0.3 | Sep 03, 2021 | | Soil | B21-Se11818 | | | | X | X | | X | X | |
| 32 | BH19_0.5 | Sep 03, 2021 | | Soil | B21-Se11819 | | | | | X | | X | X | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X | X | X | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| 33 | BH20_0.1 | Sep 03, 2021 | | Soil | B21-Se11820 | X | | | | X | X | X | X | |
| 34 | BH20_0.3 | Sep 03, 2021 | | Soil | B21-Se11821 | | | | | X | | X | X | |
| 35 | BH20_0.5 | Sep 03, 2021 | | Soil | B21-Se11822 | | | | | X | | X | X | |
| 36 | BH21_0.1 | Sep 03, 2021 | | Soil | B21-Se11823 | | | | | X | X | X | X | |
| 37 | BH21_0.3 | Sep 03, 2021 | | Soil | B21-Se11824 | | | | | X | | X | X | |
| 38 | BH21_0.5 | Sep 03, 2021 | | Soil | B21-Se11825 | | | | | X | | X | X | |
| 39 | SLAG-1 | Sep 03, 2021 | | Soil | B21-Se11826 | | | | X | | | X | X | |
| 40 | SLAG-2 | Sep 03, 2021 | | Soil | B21-Se11827 | | | | X | | | X | X | |
| 41 | BH01_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11828 | | | X | | X | | | X | |
| 42 | BH03_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11829 | | | X | | X | | | X | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X | X | X | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| 43 | BH05_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11830 | | | X | | X | | | X | |
| 44 | BH06_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11831 | | | X | | X | | | X | |
| 45 | BH07_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11832 | | | X | | X | | | X | |
| 46 | BH08_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11833 | | | X | | X | | | X | |
| 47 | BH09_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11834 | | | X | | X | | | X | |
| 48 | BH10_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11835 | | | X | | X | | | X | |
| 49 | BH11_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11836 | | | X | | X | | | X | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X | X | X | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| 50 | BH21_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11837 | | | X | | X | | | X | |
| 51 | QC01_210903 | Sep 03, 2021 | | Soil | B21-Se11838 | | | | X | X | | X | X | |
| 52 | QC09_210903 | Sep 03, 2021 | | Soil | B21-Se11840 | | | | | X | | X | X | |
| 53 | QC13_210903 | Sep 03, 2021 | | Water | B21-Se11842 | | | | | X | | X | | |
| 54 | QC14_210903 | Sep 03, 2021 | | Water | B21-Se11843 | | | | X | X | | X | | |
| 55 | TRIP BLANK | Sep 03, 2021 | | Trip Blank (solid) | B21-Se11844 | | | | | | | | | X |
| 56 | BH01_0.3 | Sep 03, 2021 | | Soil | B21-Se11845 | | X | | | | | | | |
| 57 | BH01_0.5 | Sep 03, 2021 | | Soil | B21-Se11846 | | X | | | | | | | |
| 58 | BH02_0.3 | Sep 03, 2021 | | Soil | B21-Se11847 | | X | | | | | | | |
| 59 | BH02_0.5 | Sep 03, 2021 | | Soil | B21-Se11848 | | X | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X | X | X | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| 60 | BH03_0.3 | Sep 03, 2021 | | Soil | B21-Se11849 | | X | | | | | | | |
| 61 | BH03_0.5 | Sep 03, 2021 | | Soil | B21-Se11850 | | X | | | | | | | |
| 62 | BH04_0.3 | Sep 03, 2021 | | Soil | B21-Se11851 | | X | | | | | | | |
| 63 | BH04_0.5 | Sep 03, 2021 | | Soil | B21-Se11852 | | X | | | | | | | |
| 64 | BH05_0.3 | Sep 03, 2021 | | Soil | B21-Se11853 | | X | | | | | | | |
| 65 | BH05_0.5 | Sep 03, 2021 | | Soil | B21-Se11854 | | X | | | | | | | |
| 66 | BH07_0.5 | Sep 03, 2021 | | Soil | B21-Se11855 | | X | | | | | | | |
| 67 | BH08_0.5 | Sep 03, 2021 | | Soil | B21-Se11856 | | X | | | | | | | |
| 68 | QC03_21093 | Sep 03, 2021 | | Soil | B21-Se11857 | | X | | | | | | | |
| 69 | QC04_21093 | Sep 03, 2021 | | Soil | B21-Se11858 | | X | | | | | | | |
| 70 | QC05_21093 | Sep 03, 2021 | | Soil | B21-Se11859 | | X | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X | X | X | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | |
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| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| 71 | QC06_21093 | Sep 03, 2021 | | Soil | B21-Se11860 | | X | | | | | | | |
| 72 | QC07_21093 | Sep 03, 2021 | | Soil | B21-Se11861 | | X | | | | | | | |
| 73 | QC08_21093 | Sep 03, 2021 | | Soil | B21-Se11862 | | X | | | | | | | |
| 74 | QC11_21093 | Sep 03, 2021 | | Soil | B21-Se11863 | | X | | | | | | | |
| 75 | QC12_21093 | Sep 03, 2021 | | Soil | B21-Se11864 | | X | | | | | | | |
| 76 | Spike 1 | Sep 03, 2021 | | Soil | B21-Se12715 | | X | | | | | | | |
| 77 | BH02_CONCRETE | Sep 03, 2021 | | Soil | B21-Se12727 | | X | | | | | | | |
| 78 | BH04_CONCRETE | Sep 03, 2021 | | Soil | B21-Se12728 | | X | | | | | | | |
| **Test Counts** | | | | | | 10 | 23 | 10 | 8 | 52 | 16 | 44 | 52 | 1 |

## Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation.
6. This report replaces any interim results previously issued.

## Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

## Units

| | |
|---|---|
| % w/w: | Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**) |
| F/fld | Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**) |
| F/mL | Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**) |
| g, kg | Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**) |
| g/kg | Concentration in grams per kilogram |
| L, mL | Volume, e.g. of air as measured in AFM (**V** = **r** x **t**) |
| L/min | Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**) |
| min | Time (**t**), e.g. of air sample collection period |

## Calculations

Airborne Fibre Concentration: $C = \frac{}{a} \times \frac{}{n} \times \frac{}{r} \times \frac{}{t} = K \times \frac{}{n} \times \frac{}{V}$

Asbestos Content (as asbestos): $\% w/w = \frac{(m \times PA)}{M}$

Weighted Average (of asbestos): $\%w = \Sigma \frac{(m \times P_A)_X}{X}$

## Terms

| | |
|---|---|
| **%asbestos** | Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**$P_A$**). |
| **ACM** | Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm. |
| **AF** | Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable". |
| **AFM** | Airborne Fibre Monitoring, e.g. by the MFM. |
| **Amosite** | Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004. |
| **AS** | Australian Standard. |
| **Asbestos Content (as asbestos)** | Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w**). |
| **Chrysotile** | Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004. |
| **COC** | Chain of Custody. |
| **Compliant** | Indicates the item has been assessed against the relevant criteria, e.g. NATA SAC_07. |
| **Crocidolite** | Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004. |
| **Dry** | Sample is dried by heating prior to analysis. |
| **DS** | Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM. |
| **FA** | Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF. |
| **Fibre Count** | Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003 |
| **Fibre ID** | Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos. |
| **Friable** | Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability. |
| **HSG248** | UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021). |
| **HSG264** | UK HSE HSG264, *Asbestos: The Survey Guide* (2012). |
| **ISO (also ISO/IEC)** | International Organization for Standardization / International Electrotechnical Commission. |
| **K Factor** | Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**). |
| **LOR** | Limit of Reporting. |
| **MFM (also NOHSC:3003)** | Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)]. |
| **N/A** | Not Applicable. Indicates a result or assessment is not required or applicable to that item. |
| **NATA** | National Association of Testing Authorities, Australia. |
| **NEPM (also ASC NEPM)** | National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended). |
| **Organic** | Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004. |
| **PCM** | Phase Contrast Microscopy. As used for Fibre Counting according to the MFM. |
| **PLM** | Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004. |
| **SAC_07** | Specific Accreditation Criteria: ISO/IEC 17025 Application Document, Life Sciences – Annex, Asbestos sampling and testing. |
| **SMF** | Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004. |
| **SRA** | Sample Receipt Advice. |
| **Trace Analysis** | Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix. |
| **UK HSE HSG** | United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication. |
| **UMF** | Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos. |
| **WA DOH** | Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos- Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis* |
| **Weighted Average** | Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**). |

## Comments

### Sample Integrity

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

### Asbestos Counter/Identifier:

| | |
|---|---|
| Sayeed Abu | Senior Analyst-Asbestos (NSW) |

### Authorised by:

| | |
|---|---|
| Chamath JHM Annakkage | Senior Analyst-Asbestos (NSW) |

**Glenn Jackson**
**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 or please click here.

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# Certificate of Analysis

**Coffey Environments Pty Ltd QLD**
**Level 5, 12 Creek Street**
**Brisbane**
**QLD 4000**

**NATA Accredited**
**Accreditation Number 1261**
**Site Number 1254**

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:** **Jeremy Wicks**

**Report** **822538-S-V2**
Project name 754-BNEEN282781 DVA GREENSLOPES
Received Date Sep 06, 2021

| **Client Sample ID** | | | **BH01_0.1** | **BH02_0.1** | **BH03_0.1** | **BH04_0.1** |
|---|---|---|---|---|---|---|
| **Sample Matrix** | | | **Soil** | **Soil** | **Soil** | **Soil** |
| **Eurofins Sample No.** | | | **B21-Se11788** | **B21-Se11789** | **B21-Se11790** | **B21-Se11791** |
| **Date Sampled** | | | **Sep 03, 2021** | **Sep 03, 2021** | **Sep 03, 2021** | **Sep 03, 2021** |
| Test/Reference | LOR | Unit | | | | |
| **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 | 0.06 | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | 0.16 | < 0.05 | 0.39 | < 0.05 |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | < 0.05 | 0.31 | < 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 | 0.16 | < 0.05 | 0.76 | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | 0.16 | < 0.1 | 0.76 | < 0.1 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dibutylchlorendate (surr.) | 1 | % | 98 | 102 | 89 | 93 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 112 | 87 | 57 | 78 |
| **Organophosphorus Pesticides** | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Bolstar | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Coumaphos | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Demeton-S | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Demeton-O | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |

| Client Sample ID | | | BH01_0.1 | BH02_0.1 | BH03_0.1 | BH04_0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | B21-Se11788 | B21-Se11789 | B21-Se11790 | B21-Se11791 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **Organophosphorus Pesticides** | | | | | | |
| Diazinon | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Dimethoate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Disulfoton | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| EPN | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethoprop | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Fenthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Malathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Merphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Mevinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Monocrotophos | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Naled | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Omethoate | 2 | mg/kg | < 2 | < 2 | < 2 | < 2 |
| Phorate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Ronnel | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Terbufos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Tokuthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Trichloronate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Triphenylphosphate (surr.) | 1 | % | 99 | 83 | 86 | 91 |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | < 2 | < 2 | 6.5 | 3.4 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 45 | 37 | 70 | 49 |
| Copper | 5 | mg/kg | 6.1 | < 5 | 6.6 | < 5 |
| Lead | 5 | mg/kg | 5.6 | < 5 | 40 | < 5 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | 22 | 18 | 22 | 9.2 |
| Zinc | 5 | mg/kg | 22 | 16 | 29 | 16 |
| | | | | | | |
| % Moisture | 1 | % | 11 | 12 | 12 | 13 |

| Client Sample ID | | | BH05_0.1 | BH06_0.1 | BH06_0.3 | BH06_0.5 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | B21-Se11792 | B21-Se11793 | B21-Se11794 | B21-Se11795 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **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 | % | 124 | 56 | 63 | 83 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 109 | 102 | 142 | 56 |
| **Organophosphorus Pesticides** | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Bolstar | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Coumaphos | 2 | mg/kg | < 2 | < 2 | - | - |
| Demeton-S | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Demeton-O | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Diazinon | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Dimethoate | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Disulfoton | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| EPN | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Ethion | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Ethoprop | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Fenthion | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Malathion | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Merphos | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |

| Client Sample ID | | | BH05_0.1 | BH06_0.1 | BH06_0.3 | BH06_0.5 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | B21-Se11792 | B21-Se11793 | B21-Se11794 | B21-Se11795 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **Organophosphorus Pesticides** | | | | | | |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Mevinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Monocrotophos | 2 | mg/kg | < 2 | < 2 | - | - |
| Naled | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Omethoate | 2 | mg/kg | < 2 | < 2 | - | - |
| Phorate | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Ronnel | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Terbufos | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Tokuthion | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Trichloronate | 0.2 | mg/kg | < 0.2 | < 0.2 | - | - |
| Triphenylphosphate (surr.) | 1 | % | 114 | 94 | - | - |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | 12 | 4.6 | 5.7 | 8.8 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 75 | 5.6 | 13 | 150 |
| Copper | 5 | mg/kg | 7.1 | 6.4 | 5.9 | 21 |
| Lead | 5 | mg/kg | 5.5 | 6.6 | 11 | < 5 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | 14 | < 5 | < 5 | 45 |
| Zinc | 5 | mg/kg | 19 | 19 | 24 | 27 |
| | | | | | | |
| % Moisture | 1 | % | 7.8 | 4.2 | 5.3 | 18 |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | - | - | < 0.5 | - |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | - | - | 0.6 | - |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | - | - | 1.2 | - |
| Acenaphthene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Acenaphthylene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Anthracene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Benz(a)anthracene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Benzo(a)pyrene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | - | - | < 0.5 | - |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Benzo(k)fluoranthene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Chrysene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Fluoranthene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Fluorene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Naphthalene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Phenanthrene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Pyrene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Total PAH* | 0.5 | mg/kg | - | - | < 0.5 | - |
| 2-Fluorobiphenyl (surr.) | 1 | % | - | - | 60 | - |
| p-Terphenyl-d14 (surr.) | 1 | % | - | - | 106 | - |

| Client Sample ID | | | BH07_0.1 | BH07_0.3 | BH08_0.1 | BH08_0.3 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | B21-Se11796 | B21-Se11797 | B21-Se11798 | B21-Se11799 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **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 | % | 81 | 105 | 92 | 91 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 112 | 112 | 90 | 113 |
| **Organophosphorus Pesticides** | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | - | - | - |
| Bolstar | 0.2 | mg/kg | < 0.2 | - | - | - |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | - | - | - |
| Coumaphos | 2 | mg/kg | < 2 | - | - | - |
| Demeton-S | 0.2 | mg/kg | < 0.2 | - | - | - |
| Demeton-O | 0.2 | mg/kg | < 0.2 | - | - | - |
| Diazinon | 0.2 | mg/kg | < 0.2 | - | - | - |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Dimethoate | 0.2 | mg/kg | < 0.2 | - | - | - |
| Disulfoton | 0.2 | mg/kg | < 0.2 | - | - | - |
| EPN | 0.2 | mg/kg | < 0.2 | - | - | - |
| Ethion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Ethoprop | 0.2 | mg/kg | < 0.2 | - | - | - |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Fenthion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Malathion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Merphos | 0.2 | mg/kg | < 0.2 | - | - | - |

| Client Sample ID | | | BH07_0.1 | BH07_0.3 | BH08_0.1 | BH08_0.3 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | B21-Se11796 | B21-Se11797 | B21-Se11798 | B21-Se11799 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **Organophosphorus Pesticides** | | | | | | |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Mevinphos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Monocrotophos | 2 | mg/kg | < 2 | - | - | - |
| Naled | 0.2 | mg/kg | < 0.2 | - | - | - |
| Omethoate | 2 | mg/kg | < 2 | - | - | - |
| Phorate | 0.2 | mg/kg | < 0.2 | - | - | - |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | - | - | - |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Ronnel | 0.2 | mg/kg | < 0.2 | - | - | - |
| Terbufos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | - | - | - |
| Tokuthion | 0.2 | mg/kg | < 0.2 | - | - | - |
| Trichloronate | 0.2 | mg/kg | < 0.2 | - | - | - |
| Triphenylphosphate (surr.) | 1 | % | 79 | - | - | - |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | 7.0 | 8.7 | 4.6 | 3.7 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 5.6 | 170 | 100 | 110 |
| Copper | 5 | mg/kg | 7.4 | 10 | 6.7 | 11 |
| Lead | 5 | mg/kg | 6.6 | 6.7 | < 5 | < 5 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | < 5 | 30 | 15 | 26 |
| Zinc | 5 | mg/kg | 19 | 32 | 14 | 20 |
| | | | | | | |
| % Moisture | 1 | % | 8.7 | 16 | 14 | 13 |

| Client Sample ID | | | BH12_0.1 | BH13_0.1 | BH14_0.1 | BH14_0.3 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | B21-Se11800 | B21-Se11801 | B21-Se11802 | B21-Se11803 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **Organochlorine Pesticides** | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | 0.2 | < 0.1 | < 0.1 | < 0.1 |
| 4.4'-DDD | 0.05 | mg/kg | 0.34 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | 0.47 | < 0.05 | < 0.05 | < 0.05 |
| 4.4'-DDT | 0.05 | mg/kg | 18 | < 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 | 0.15 | < 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 | 0.21 | 0.10 | 9.0 | 0.91 |
| 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 |

| Client Sample ID | | | BH12_0.1 | BH13_0.1 | BH14_0.1 | BH14_0.3 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | B21-Se11800 | B21-Se11801 | B21-Se11802 | B21-Se11803 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **Organochlorine Pesticides** | | | | | | |
| 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 | 0.21 | 0.1 | 9.15 | 0.91 |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | 18.81 | < 0.05 | < 0.05 | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | 19.22 | 0.1 | 9.15 | 0.91 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | 0.2 | < 0.1 | < 0.1 | < 0.1 |
| Dibutylchlorendate (surr.) | 1 | % | 90 | 97 | 111 | 101 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 90 | 103 | 82 | 74 |
| **Organophosphorus Pesticides** | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Bolstar | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Coumaphos | 2 | mg/kg | < 2 | < 2 | < 2 | - |
| Demeton-S | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Demeton-O | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Diazinon | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Dimethoate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Disulfoton | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| EPN | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Ethion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Ethoprop | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Fenthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Malathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Merphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Mevinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Monocrotophos | 2 | mg/kg | < 2 | < 2 | < 2 | - |
| Naled | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Omethoate | 2 | mg/kg | < 2 | < 2 | < 2 | - |
| Phorate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Ronnel | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Terbufos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Tokuthion | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Trichloronate | 0.2 | mg/kg | < 0.2 | < 0.2 | < 0.2 | - |
| Triphenylphosphate (surr.) | 1 | % | 112 | 101 | 103 | - |

| Client Sample ID | | | BH12_0.1 | BH13_0.1 | BH14_0.1 | BH14_0.3 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | B21-Se11800 | B21-Se11801 | B21-Se11802 | B21-Se11803 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | 6.4 | 10 | 7.7 | 6.1 |
| Cadmium | 0.4 | mg/kg | 0.9 | 0.5 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 79 | 73 | 16 | 6.7 |
| Copper | 5 | mg/kg | 21 | 30 | 13 | 7.8 |
| Lead | 5 | mg/kg | 54 | 110 | 120 | 33 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | 66 | 25 | 6.9 | < 5 |
| Zinc | 5 | mg/kg | 160 | 250 | 210 | 48 |
| | | | | | | |
| % Moisture | 1 | % | 4.9 | 14 | 4.4 | 7.7 |

| Client Sample ID | | | BH14_0.5 | BH15_0.1 | BH15_0.3 | BH15_0.5 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | B21-Se11804 | B21-Se11805 | B21-Se11806 | B21-Se11807 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **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 | 0.24 | < 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 | 0.24 | < 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 | 0.24 | < 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 | % | 91 | 88 | 95 | 96 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 90 | 80 | 77 | 89 |

| Client Sample ID | | | BH14_0.5 | BH15_0.1 | BH15_0.3 | BH15_0.5 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | B21-Se11804 | B21-Se11805 | B21-Se11806 | B21-Se11807 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **Organophosphorus Pesticides** | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | - | < 0.2 | - | - |
| Bolstar | 0.2 | mg/kg | - | < 0.2 | - | - |
| Chlorfenvinphos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Chlorpyrifos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Chlorpyrifos-methyl | 0.2 | mg/kg | - | < 0.2 | - | - |
| Coumaphos | 2 | mg/kg | - | < 2 | - | - |
| Demeton-S | 0.2 | mg/kg | - | < 0.2 | - | - |
| Demeton-O | 0.2 | mg/kg | - | < 0.2 | - | - |
| Diazinon | 0.2 | mg/kg | - | < 0.2 | - | - |
| Dichlorvos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Dimethoate | 0.2 | mg/kg | - | < 0.2 | - | - |
| Disulfoton | 0.2 | mg/kg | - | < 0.2 | - | - |
| EPN | 0.2 | mg/kg | - | < 0.2 | - | - |
| Ethion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Ethoprop | 0.2 | mg/kg | - | < 0.2 | - | - |
| Ethyl parathion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Fenitrothion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Fensulfothion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Fenthion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Malathion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Merphos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Methyl parathion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Mevinphos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Monocrotophos | 2 | mg/kg | - | < 2 | - | - |
| Naled | 0.2 | mg/kg | - | < 0.2 | - | - |
| Omethoate | 2 | mg/kg | - | < 2 | - | - |
| Phorate | 0.2 | mg/kg | - | < 0.2 | - | - |
| Pirimiphos-methyl | 0.2 | mg/kg | - | < 0.2 | - | - |
| Pyrazophos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Ronnel | 0.2 | mg/kg | - | < 0.2 | - | - |
| Terbufos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Tetrachlorvinphos | 0.2 | mg/kg | - | < 0.2 | - | - |
| Tokuthion | 0.2 | mg/kg | - | < 0.2 | - | - |
| Trichloronate | 0.2 | mg/kg | - | < 0.2 | - | - |
| Triphenylphosphate (surr.) | 1 | % | - | 94 | - | - |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | 2.1 | 7.3 | 6.7 | 6.8 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 59 | 32 | 67 | 66 |
| Copper | 5 | mg/kg | 6.7 | 25 | 8.6 | 11 |
| Lead | 5 | mg/kg | 6.7 | 160 | 9.8 | < 5 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | 17 | 13 | 14 | 15 |
| Zinc | 5 | mg/kg | 20 | 250 | 26 | 18 |
| | | | | | | |
| % Moisture | 1 | % | 9.1 | 4.9 | 15 | 20 |

| Client Sample ID | | | BH16_0.1 | BH16_0.3 | BH16_0.5 | BH17_0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | B21-Se11808 | B21-Se11809 | B21-Se11810 | B21-Se11811 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **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 | % | 99 | 93 | 118 | 77 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 93 | 131 | 112 | 124 |
| **Organophosphorus Pesticides** | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Bolstar | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Coumaphos | 2 | mg/kg | < 2 | - | - | < 2 |
| Demeton-S | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Demeton-O | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Diazinon | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Dimethoate | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Disulfoton | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| EPN | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Ethion | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Ethoprop | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Fenthion | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Malathion | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Merphos | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |

| Client Sample ID | | | BH16_0.1 | BH16_0.3 | BH16_0.5 | BH17_0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | B21-Se11808 | B21-Se11809 | B21-Se11810 | B21-Se11811 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **Organophosphorus Pesticides** | | | | | | |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Mevinphos | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Monocrotophos | 2 | mg/kg | < 2 | - | - | < 2 |
| Naled | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Omethoate | 2 | mg/kg | < 2 | - | - | < 2 |
| Phorate | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Ronnel | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Terbufos | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Tokuthion | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Trichloronate | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Triphenylphosphate (surr.) | 1 | % | 115 | - | - | 67 |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | 19 | 11 | 12 | 4.1 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 30 | 79 | 150 | 45 |
| Copper | 5 | mg/kg | 20 | 12 | 20 | 20 |
| Lead | 5 | mg/kg | 160 | 47 | 9.7 | 65 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | 9.5 | 21 | 45 | 21 |
| Zinc | 5 | mg/kg | 320 | 53 | 43 | 75 |
| | | | | | | |
| % Moisture | 1 | % | 15 | 15 | 17 | 7.4 |

| Client Sample ID | | | BH17_0.3 | BH17_0.5 | BH18_0.1 | BH18_0.3 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | B21-Se11812 | B21-Se11813 | B21-Se11814 | B21-Se11815 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **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 |

| Client Sample ID | | | BH17_0.3 | BH17_0.5 | BH18_0.1 | BH18_0.3 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | B21-Se11812 | B21-Se11813 | B21-Se11814 | B21-Se11815 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **Organochlorine Pesticides** | | | | | | |
| 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 | % | 69 | 64 | 89 | 93 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 143 | 126 | 109 | 80 |
| **Organophosphorus Pesticides** | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | - | - | < 0.2 | - |
| Bolstar | 0.2 | mg/kg | - | - | < 0.2 | - |
| Chlorfenvinphos | 0.2 | mg/kg | - | - | < 0.2 | - |
| Chlorpyrifos | 0.2 | mg/kg | - | - | < 0.2 | - |
| Chlorpyrifos-methyl | 0.2 | mg/kg | - | - | < 0.2 | - |
| Coumaphos | 2 | mg/kg | - | - | < 2 | - |
| Demeton-S | 0.2 | mg/kg | - | - | < 0.2 | - |
| Demeton-O | 0.2 | mg/kg | - | - | < 0.2 | - |
| Diazinon | 0.2 | mg/kg | - | - | < 0.2 | - |
| Dichlorvos | 0.2 | mg/kg | - | - | < 0.2 | - |
| Dimethoate | 0.2 | mg/kg | - | - | < 0.2 | - |
| Disulfoton | 0.2 | mg/kg | - | - | < 0.2 | - |
| EPN | 0.2 | mg/kg | - | - | < 0.2 | - |
| Ethion | 0.2 | mg/kg | - | - | < 0.2 | - |
| Ethoprop | 0.2 | mg/kg | - | - | < 0.2 | - |
| Ethyl parathion | 0.2 | mg/kg | - | - | < 0.2 | - |
| Fenitrothion | 0.2 | mg/kg | - | - | < 0.2 | - |
| Fensulfothion | 0.2 | mg/kg | - | - | < 0.2 | - |
| Fenthion | 0.2 | mg/kg | - | - | < 0.2 | - |
| Malathion | 0.2 | mg/kg | - | - | < 0.2 | - |
| Merphos | 0.2 | mg/kg | - | - | < 0.2 | - |
| Methyl parathion | 0.2 | mg/kg | - | - | < 0.2 | - |
| Mevinphos | 0.2 | mg/kg | - | - | < 0.2 | - |
| Monocrotophos | 2 | mg/kg | - | - | < 2 | - |
| Naled | 0.2 | mg/kg | - | - | < 0.2 | - |
| Omethoate | 2 | mg/kg | - | - | < 2 | - |
| Phorate | 0.2 | mg/kg | - | - | < 0.2 | - |
| Pirimiphos-methyl | 0.2 | mg/kg | - | - | < 0.2 | - |
| Pyrazophos | 0.2 | mg/kg | - | - | < 0.2 | - |
| Ronnel | 0.2 | mg/kg | - | - | < 0.2 | - |
| Terbufos | 0.2 | mg/kg | - | - | < 0.2 | - |
| Tetrachlorvinphos | 0.2 | mg/kg | - | - | < 0.2 | - |
| Tokuthion | 0.2 | mg/kg | - | - | < 0.2 | - |
| Trichloronate | 0.2 | mg/kg | - | - | < 0.2 | - |
| Triphenylphosphate (surr.) | 1 | % | - | - | 92 | - |

| Client Sample ID | | | BH17_0.3 | BH17_0.5 | BH18_0.1 | BH18_0.3 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | B21-Se11812 | B21-Se11813 | B21-Se11814 | B21-Se11815 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | 3.1 | < 2 | 5.0 | < 2 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 8.9 | < 5 | 51 | 24 |
| Copper | 5 | mg/kg | 23 | 16 | 18 | 22 |
| Lead | 5 | mg/kg | 75 | 8.0 | 37 | 29 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | 5.1 | < 5 | 25 | 15 |
| Zinc | 5 | mg/kg | 130 | 14 | 79 | 39 |
| | | | | | | |
| % Moisture | 1 | % | 4.1 | 5.1 | 8.2 | 5.2 |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | - | < 0.5 | - | - |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | - | 0.6 | - | - |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | - | 1.2 | - | - |
| Acenaphthene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Acenaphthylene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Anthracene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Benz(a)anthracene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Benzo(a)pyrene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | - | < 0.5 | - | - |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Benzo(k)fluoranthene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Chrysene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Fluoranthene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Fluorene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Naphthalene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Phenanthrene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Pyrene | 0.5 | mg/kg | - | < 0.5 | - | - |
| Total PAH* | 0.5 | mg/kg | - | < 0.5 | - | - |
| 2-Fluorobiphenyl (surr.) | 1 | % | - | 56 | - | - |
| p-Terphenyl-d14 (surr.) | 1 | % | - | 88 | - | - |

| Client Sample ID | | | BH18_0.5 | BH19_0.1 | BH19_0.3 | BH19_0.5 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | B21-Se11816 | B21-Se11817 | B21-Se11818 | B21-Se11819 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **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 |

| Client Sample ID | | | BH18_0.5 | BH19_0.1 | BH19_0.3 | BH19_0.5 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | B21-Se11816 | B21-Se11817 | B21-Se11818 | B21-Se11819 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **Organochlorine Pesticides** | | | | | | |
| 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 | % | 103 | 99 | 101 | 107 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 99 | 90 | 70 | 90 |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | 23 | 5.5 | 3.5 | 2.2 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 39 | 21 | 53 | 73 |
| Copper | 5 | mg/kg | 14 | 19 | 25 | 7.6 |
| Lead | 5 | mg/kg | 27 | 76 | 110 | 11 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | 14 | 9.4 | 20 | 14 |
| Zinc | 5 | mg/kg | 31 | 97 | 100 | 21 |
| | | | | | | |
| % Moisture | 1 | % | 4.6 | 6.7 | 9.6 | 5.5 |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | 0.6 | - | 0.6 | - |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | 1.2 | - | 1.2 | - |
| Acenaphthene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Acenaphthylene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Anthracene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Benz(a)anthracene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Benzo(a)pyrene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Benzo(k)fluoranthene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Chrysene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Fluoranthene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Fluorene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Naphthalene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Phenanthrene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |

| Client Sample ID | | | BH18_0.5 | BH19_0.1 | BH19_0.3 | BH19_0.5 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | B21-Se11816 | B21-Se11817 | B21-Se11818 | B21-Se11819 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Pyrene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| Total PAH* | 0.5 | mg/kg | < 0.5 | - | < 0.5 | - |
| 2-Fluorobiphenyl (surr.) | 1 | % | 113 | - | 70 | - |
| p-Terphenyl-d14 (surr.) | 1 | % | 114 | - | 52 | - |

| Client Sample ID | | | BH20_0.1 | BH20_0.3 | BH20_0.5 | BH21_0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | B21-Se11820 | B21-Se11821 | B21-Se11822 | B21-Se11823 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **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 | 98 |
| 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 | 5.2 |
| 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 | 103.2 |
| 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 | 103.2 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dibutylchlorendate (surr.) | 1 | % | 105 | 87 | 110 | 134 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 117 | 108 | 88 | 90 |
| **Organophosphorus Pesticides** | | | | | | |
| Azinphos-methyl | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Bolstar | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Chlorfenvinphos | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Chlorpyrifos | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Chlorpyrifos-methyl | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Coumaphos | 2 | mg/kg | < 2 | - | - | < 2 |
| Demeton-S | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Demeton-O | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Diazinon | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |

| Client Sample ID | | | BH20_0.1 | BH20_0.3 | BH20_0.5 | BH21_0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | B21-Se11820 | B21-Se11821 | B21-Se11822 | B21-Se11823 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **Organophosphorus Pesticides** | | | | | | |
| Dichlorvos | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Dimethoate | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Disulfoton | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| EPN | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Ethion | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Ethoprop | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Ethyl parathion | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Fenitrothion | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Fensulfothion | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Fenthion | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Malathion | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Merphos | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Methyl parathion | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Mevinphos | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Monocrotophos | 2 | mg/kg | < 2 | - | - | < 2 |
| Naled | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Omethoate | 2 | mg/kg | < 2 | - | - | < 2 |
| Phorate | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Pirimiphos-methyl | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Pyrazophos | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Ronnel | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Terbufos | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Tetrachlorvinphos | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Tokuthion | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Trichloronate | 0.2 | mg/kg | < 0.2 | - | - | < 0.2 |
| Triphenylphosphate (surr.) | 1 | % | 112 | - | - | 116 |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | 3.3 | 3.4 | 3.2 | < 2 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 48 | 72 | 100 | 7.8 |
| Copper | 5 | mg/kg | 32 | 20 | 18 | < 5 |
| Lead | 5 | mg/kg | 68 | 20 | < 5 | 8.5 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | 9.9 | 22 | 41 | < 5 |
| Zinc | 5 | mg/kg | 88 | 39 | 27 | 31 |
| | | | | | | |
| % Moisture | 1 | % | 11 | 11 | 19 | 6.9 |

| Client Sample ID | | | BH21_0.3 | BH21_0.5 | SLAG-1 | SLAG-2 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | B21-Se11824 | B21-Se11825 | B21-Se11826 | B21-Se11827 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **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 | 0.07 | < 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 | 0.98 | 0.12 | - | - |
| 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 | 0.43 | < 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 | 1.41 | 0.12 | - | - |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | 0.07 | < 0.05 | - | - |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | 1.48 | 0.12 | - | - |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | - | - |
| Dibutylchlorendate (surr.) | 1 | % | 114 | 131 | - | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | 112 | 150 | - | - |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | 12 | 11 | < 2 | < 2 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | 170 | 180 | < 5 | < 5 |
| Copper | 5 | mg/kg | 30 | 28 | < 5 | < 5 |
| Lead | 5 | mg/kg | 120 | < 5 | 10 | < 5 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | 61 | 84 | < 5 | < 5 |
| Zinc | 5 | mg/kg | 160 | 34 | 19 | < 5 |
| | | | | | | |
| % Moisture | 1 | % | 18 | 18 | < 1 | < 1 |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | - | - | 0.6 | 0.6 |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | - | - | 1.2 | 1.2 |
| Acenaphthene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Acenaphthylene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Anthracene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Benz(a)anthracene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Benzo(a)pyrene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |

| Client Sample ID | | | BH21_0.3 | BH21_0.5 | SLAG-1 | SLAG-2 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | B21-Se11824 | B21-Se11825 | B21-Se11826 | B21-Se11827 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(k)fluoranthene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Chrysene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Fluoranthene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Fluorene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Naphthalene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Phenanthrene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Pyrene | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| Total PAH* | 0.5 | mg/kg | - | - | < 0.5 | < 0.5 |
| 2-Fluorobiphenyl (surr.) | 1 | % | - | - | 121 | 112 |
| p-Terphenyl-d14 (surr.) | 1 | % | - | - | 92 | 112 |

| Client Sample ID | | | BH01_CONCRETE | BH03_CONCRETE | BH05_CONCRETE | BH06_CONCRETE |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | B21-Se11828 | B21-Se11829 | B21-Se11830 | B21-Se11831 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **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 | 0.28 | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 | < 0.05 | 1.6 | < 0.05 |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | < 0.05 | 0.33 | < 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 | 0.13 | < 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 | 0.13 | < 0.05 |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 | < 0.05 | 2.21 | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | 2.34 | < 0.1 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Dibutylchlorendate (surr.) | 1 | % | 144 | 104 | 113 | 110 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 93 | 78 | 57 | 86 |
| | | | | | | |
| % Moisture | 1 | % | 5.2 | 3.0 | 7.5 | 4.9 |

| Client Sample ID | | | BH07_CONCRETE | BH08_CONCRETE | BH09_CONCRETE | BH10_CONCRETE |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | B21-Se11832 | B21-Se11833 | B21-Se11834 | B21-Se11835 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **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 | % | 110 | 144 | 74 | 78 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 58 | 106 | 77 | 82 |
| | | | | | | |
| % Moisture | 1 | % | 5.1 | 5.3 | 6.7 | 6.8 |

| Client Sample ID | | | BH11_CONCRETE | BH21_CONCRETE | QC01_210903 | QC09_210903 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | B21-Se11836 | B21-Se11837 | B21-Se11838 | B21-Se11840 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **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 | 0.38 | < 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 | 0.35 | < 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 |

| Client Sample ID | | | BH11_CONCRETE | BH21_CONCRETE | QC01_210903 | QC09_210903 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins Sample No. | | | B21-Se11836 | B21-Se11837 | B21-Se11838 | B21-Se11840 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **Organochlorine Pesticides** | | | | | | |
| 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 | 0.73 | < 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 | 0.73 | < 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 | % | 54 | 54 | 80 | 95 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 62 | 67 | 51 | 103 |
| **Heavy Metals** | | | | | | |
| Arsenic | 2 | mg/kg | - | - | 2.6 | 4.0 |
| Cadmium | 0.4 | mg/kg | - | - | < 0.4 | < 0.4 |
| Chromium | 5 | mg/kg | - | - | 39 | 8.9 |
| Copper | 5 | mg/kg | - | - | 15 | 15 |
| Lead | 5 | mg/kg | - | - | 65 | 78 |
| Mercury | 0.1 | mg/kg | - | - | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | - | - | 9.7 | < 5 |
| Zinc | 5 | mg/kg | - | - | 62 | 120 |
| | | | | | | |
| % Moisture | 1 | % | 6.0 | 4.8 | 9.5 | 5.6 |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | |
| Benzo(a)pyrene TEQ (lower bound) * | 0.5 | mg/kg | - | - | < 0.5 | - |
| Benzo(a)pyrene TEQ (medium bound) * | 0.5 | mg/kg | - | - | 0.6 | - |
| Benzo(a)pyrene TEQ (upper bound) * | 0.5 | mg/kg | - | - | 1.2 | - |
| Acenaphthene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Acenaphthylene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Anthracene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Benz(a)anthracene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Benzo(a)pyrene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Benzo(b&j)fluoranthene[N07] | 0.5 | mg/kg | - | - | < 0.5 | - |
| Benzo(g.h.i)perylene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Benzo(k)fluoranthene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Chrysene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Dibenz(a.h)anthracene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Fluoranthene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Fluorene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Indeno(1.2.3-cd)pyrene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Naphthalene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Phenanthrene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Pyrene | 0.5 | mg/kg | - | - | < 0.5 | - |
| Total PAH* | 0.5 | mg/kg | - | - | < 0.5 | - |
| 2-Fluorobiphenyl (surr.) | 1 | % | - | - | 52 | - |
| p-Terphenyl-d14 (surr.) | 1 | % | - | - | 94 | - |

| Client Sample ID | | | TRIP BLANK |
|---|---|---|---|
| Sample Matrix | | | Trip Blank (solid) |
| Eurofins Sample No. | | | B21-Se11844 |
| Date Sampled | | | Sep 03, 2021 |
| Test/Reference | LOR | Unit | |
| | | | |
| Naphthalene[N02] | 0.5 | mg/kg | < 0.5 |
| **Total Recoverable Hydrocarbons - 1999 NEPM Fractions** | | | |
| TRH C6-C9 | 20 | mg/kg | < 20 |
| **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 |
| 4-Bromofluorobenzene (surr.) | 1 | % | 77 |
| **Total Recoverable Hydrocarbons** | | | |
| TRH C6-C10 | 20 | mg/kg | < 20 |
| TRH C6-C10 less BTEX (F1)[N04] | 20 | mg/kg | < 20 |

## 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 |
|---|---|---|---|
| Organochlorine Pesticides | Melbourne | Sep 22, 2021 | 14 Days |
| - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270) | | | |
| Organophosphorus Pesticides | Melbourne | Dec 16, 2021 | 14 Days |
| - Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS (USEPA 8270) | | | |
| Metals M8 | Melbourne | Sep 10, 2021 | 28 Days |
| - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | | | |
| Polycyclic Aromatic Hydrocarbons | Melbourne | Sep 10, 2021 | 14 Days |
| - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water | | | |
| % Moisture | Melbourne | Sep 07, 2021 | 14 Days |
| - Method: LTM-GEN-7080 Moisture | | | |
| Total Recoverable Hydrocarbons - 1999 NEPM Fractions | Melbourne | Sep 09, 2021 | 14 Days |
| - Method: LTM-ORG-2010 TRH C6-C40 | | | |
| BTEX | Melbourne | Sep 09, 2021 | 14 Days |
| - Method: LTM-ORG-2010 TRH C6-C40 | | | |
| Total Recoverable Hydrocarbons | Melbourne | Sep 09, 2021 | 14 Days |
| - Method: LTM-ORG-2010 TRH C6-C40 | | | |

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**Company Name:** Coffey Environments Pty Ltd QLD
**Address:** Level 5, 12 Creek Street
Brisbane
QLD 4000

**Project Name:** 754-BNEEN282781 DVA GREENSLOPES

**Order No.:**
**Report #:** 822538
**Phone:** 07 3503 7192
**Fax:**

**Received:** Sep 6, 2021 3:51 PM
**Due:** Sep 13, 2021
**Priority:** 5 Day
**Contact Name:** Jeremy Wicks

**Eurofins Analytical Services Manager : Alana Wadsworth**

| Sample Detail | | | | | | Asbestos - AS4964 | HOLD | Sample preparation - crushing | Polycyclic Aromatic Hydrocarbons | Organochlorine Pesticides | Organophosphorus Pesticides | Metals M8 | Moisture Set | BTEXN and Volatile TRH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X | X | X | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | | | | | | | | | |
| 1 | BH01_0.1 | Sep 03, 2021 | | Soil | B21-Se11788 | | | | | X | X | X | X | |
| 2 | BH02_0.1 | Sep 03, 2021 | | Soil | B21-Se11789 | | | | | X | X | X | X | |
| 3 | BH03_0.1 | Sep 03, 2021 | | Soil | B21-Se11790 | | | | | X | X | X | X | |
| 4 | BH04_0.1 | Sep 03, 2021 | | Soil | B21-Se11791 | | | | | X | X | X | X | |
| 5 | BH05_0.1 | Sep 03, 2021 | | Soil | B21-Se11792 | | | | | X | X | X | X | |
| 6 | BH06_0.1 | Sep 03, 2021 | | Soil | B21-Se11793 | | | | | X | X | X | X | |
| 7 | BH06_0.3 | Sep 03, 2021 | | Soil | B21-Se11794 | X | | | X | X | X | X | X | |
| 8 | BH06_0.5 | Sep 03, 2021 | | Soil | B21-Se11795 | | | | | X | X | X | X | |
| 9 | BH07_0.1 | Sep 03, 2021 | | Soil | B21-Se11796 | X | | | | X | X | X | X | |
| 10 | BH07_0.3 | Sep 03, 2021 | | Soil | B21-Se11797 | | | | | X | X | X | X | |

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**Priority:** 5 Day
**Contact Name:** Jeremy Wicks

**Eurofins Analytical Services Manager : Alana Wadsworth**

| Sample Detail | | | | | | Asbestos - AS4964 | HOLD | Sample preparation - crushing | Polycyclic Aromatic Hydrocarbons | Organochlorine Pesticides | Organophosphorus Pesticides | Metals M8 | Moisture Set | BTEXN and Volatile TRH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X | X | X | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| 11 | BH08_0.1 | Sep 03, 2021 | | Soil | B21-Se11798 | | | | | X | X | X | X | |
| 12 | BH08_0.3 | Sep 03, 2021 | | Soil | B21-Se11799 | | | | | X | X | X | X | |
| 13 | BH12_0.1 | Sep 03, 2021 | | Soil | B21-Se11800 | X | | | | X | X | X | X | |
| 14 | BH13_0.1 | Sep 03, 2021 | | Soil | B21-Se11801 | X | | | | X | X | X | X | |
| 15 | BH14_0.1 | Sep 03, 2021 | | Soil | B21-Se11802 | X | | | | X | X | X | X | |
| 16 | BH14_0.3 | Sep 03, 2021 | | Soil | B21-Se11803 | | | | | X | X | X | X | |
| 17 | BH14_0.5 | Sep 03, 2021 | | Soil | B21-Se11804 | | | | | X | X | X | X | |
| 18 | BH15_0.1 | Sep 03, 2021 | | Soil | B21-Se11805 | | | | | X | X | X | X | |
| 19 | BH15_0.3 | Sep 03, 2021 | | Soil | B21-Se11806 | | | | | X | X | X | X | |
| 20 | BH15_0.5 | Sep 03, 2021 | | Soil | B21-Se11807 | | | | | X | X | X | X | |
| 21 | BH16_0.1 | Sep 03, 2021 | | Soil | B21-Se11808 | X | | | | X | X | X | X | |

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**Priority:** 5 Day
**Contact Name:** Jeremy Wicks

**Eurofins Analytical Services Manager : Alana Wadsworth**

| Sample Detail | | | | | | Asbestos - AS4964 | HOLD | Sample preparation - crushing | Polycyclic Aromatic Hydrocarbons | Organochlorine Pesticides | Organophosphorus Pesticides | Metals M8 | Moisture Set | BTEXN and Volatile TRH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X | X | X | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| 22 | BH16_0.3 | Sep 03, 2021 | | Soil | B21-Se11809 | | | | | X | X | X | X | |
| 23 | BH16_0.5 | Sep 03, 2021 | | Soil | B21-Se11810 | | | | | X | X | X | X | |
| 24 | BH17_0.1 | Sep 03, 2021 | | Soil | B21-Se11811 | X | | | | X | X | X | X | |
| 25 | BH17_0.3 | Sep 03, 2021 | | Soil | B21-Se11812 | | | | | X | X | X | X | |
| 26 | BH17_0.5 | Sep 03, 2021 | | Soil | B21-Se11813 | | | | X | X | X | X | X | |
| 27 | BH18_0.1 | Sep 03, 2021 | | Soil | B21-Se11814 | X | | | | X | X | X | X | |
| 28 | BH18_0.3 | Sep 03, 2021 | | Soil | B21-Se11815 | | | | | X | X | X | X | |
| 29 | BH18_0.5 | Sep 03, 2021 | | Soil | B21-Se11816 | | | | X | X | X | X | X | |
| 30 | BH19_0.1 | Sep 03, 2021 | | Soil | B21-Se11817 | X | | | | X | X | X | X | |
| 31 | BH19_0.3 | Sep 03, 2021 | | Soil | B21-Se11818 | | | | X | X | X | X | X | |
| 32 | BH19_0.5 | Sep 03, 2021 | | Soil | B21-Se11819 | | | | | X | X | X | X | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X | X | X | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| 33 | BH20_0.1 | Sep 03, 2021 | | Soil | B21-Se11820 | X | | | | X | X | X | X | |
| 34 | BH20_0.3 | Sep 03, 2021 | | Soil | B21-Se11821 | | | | | X | X | X | X | |
| 35 | BH20_0.5 | Sep 03, 2021 | | Soil | B21-Se11822 | | | | | X | X | X | X | |
| 36 | BH21_0.1 | Sep 03, 2021 | | Soil | B21-Se11823 | | | | | X | X | X | X | |
| 37 | BH21_0.3 | Sep 03, 2021 | | Soil | B21-Se11824 | | | | | X | X | X | X | |
| 38 | BH21_0.5 | Sep 03, 2021 | | Soil | B21-Se11825 | | | | | X | X | X | X | |
| 39 | SLAG-1 | Sep 03, 2021 | | Soil | B21-Se11826 | | | | X | | X | X | X | |
| 40 | SLAG-2 | Sep 03, 2021 | | Soil | B21-Se11827 | | | | X | | X | X | X | |
| 41 | BH01_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11828 | | | X | | X | X | | X | |
| 42 | BH03_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11829 | | | X | | X | X | | X | |

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NATA # 1261 Site # 18217

**Brisbane**
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IANZ # 1290

**Company Name:** Coffey Environments Pty Ltd QLD
**Address:** Level 5, 12 Creek Street
Brisbane
QLD 4000

**Project Name:** 754-BNEEN282781 DVA GREENSLOPES

**Order No.:**
**Report #:** 822538
**Phone:** 07 3503 7192
**Fax:**

**Received:** Sep 6, 2021 3:51 PM
**Due:** Sep 13, 2021
**Priority:** 5 Day
**Contact Name:** Jeremy Wicks

**Eurofins Analytical Services Manager : Alana Wadsworth**

| Sample Detail | | | | | | Asbestos - AS4964 | HOLD | Sample preparation - crushing | Polycyclic Aromatic Hydrocarbons | Organochlorine Pesticides | Organophosphorus Pesticides | Metals M8 | Moisture Set | BTEXN and Volatile TRH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X | X | X | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| 43 | BH05_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11830 | | | X | | X | X | | X | |
| 44 | BH06_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11831 | | | X | | X | X | | X | |
| 45 | BH07_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11832 | | | X | | X | X | | X | |
| 46 | BH08_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11833 | | | X | | X | X | | X | |
| 47 | BH09_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11834 | | | X | | X | X | | X | |
| 48 | BH10_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11835 | | | X | | X | X | | X | |
| 49 | BH11_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11836 | | | X | | X | X | | X | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X | X | X | X | X |
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| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| 50 | BH21_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11837 | | | X | | X | X | | X | |
| 51 | QC01_210903 | Sep 03, 2021 | | Soil | B21-Se11838 | | | | X | X | X | X | X | |
| 52 | QC09_210903 | Sep 03, 2021 | | Soil | B21-Se11840 | | | | | X | X | X | X | |
| 53 | QC13_210903 | Sep 03, 2021 | | Water | B21-Se11842 | | | | | X | X | X | | |
| 54 | QC14_210903 | Sep 03, 2021 | | Water | B21-Se11843 | | | | X | X | X | X | | |
| 55 | TRIP BLANK | Sep 03, 2021 | | Trip Blank (solid) | B21-Se11844 | | | | | | | | | X |
| 56 | BH01_0.3 | Sep 03, 2021 | | Soil | B21-Se11845 | | X | | | | | | | |
| 57 | BH01_0.5 | Sep 03, 2021 | | Soil | B21-Se11846 | | X | | | | | | | |
| 58 | BH02_0.3 | Sep 03, 2021 | | Soil | B21-Se11847 | | X | | | | | | | |
| 59 | BH02_0.5 | Sep 03, 2021 | | Soil | B21-Se11848 | | X | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| 60 | BH03_0.3 | Sep 03, 2021 | | Soil | B21-Se11849 | | X | | | | | | | |
| 61 | BH03_0.5 | Sep 03, 2021 | | Soil | B21-Se11850 | | X | | | | | | | |
| 62 | BH04_0.3 | Sep 03, 2021 | | Soil | B21-Se11851 | | X | | | | | | | |
| 63 | BH04_0.5 | Sep 03, 2021 | | Soil | B21-Se11852 | | X | | | | | | | |
| 64 | BH05_0.3 | Sep 03, 2021 | | Soil | B21-Se11853 | | X | | | | | | | |
| 65 | BH05_0.5 | Sep 03, 2021 | | Soil | B21-Se11854 | | X | | | | | | | |
| 66 | BH07_0.5 | Sep 03, 2021 | | Soil | B21-Se11855 | | X | | | | | | | |
| 67 | BH08_0.5 | Sep 03, 2021 | | Soil | B21-Se11856 | | X | | | | | | | |
| 68 | QC03_21093 | Sep 03, 2021 | | Soil | B21-Se11857 | | X | | | | | | | |
| 69 | QC04_21093 | Sep 03, 2021 | | Soil | B21-Se11858 | | X | | | | | | | |
| 70 | QC05_21093 | Sep 03, 2021 | | Soil | B21-Se11859 | | X | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X | X | X | X | X |
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| **External Laboratory** | | | | | | | | | | | | | | |
| 71 | QC06_21093 | Sep 03, 2021 | | Soil | B21-Se11860 | | X | | | | | | | |
| 72 | QC07_21093 | Sep 03, 2021 | | Soil | B21-Se11861 | | X | | | | | | | |
| 73 | QC08_21093 | Sep 03, 2021 | | Soil | B21-Se11862 | | X | | | | | | | |
| 74 | QC11_21093 | Sep 03, 2021 | | Soil | B21-Se11863 | | X | | | | | | | |
| 75 | QC12_21093 | Sep 03, 2021 | | Soil | B21-Se11864 | | X | | | | | | | |
| 76 | Spike 1 | Sep 03, 2021 | | Soil | B21-Se12715 | | X | | | | | | | |
| 77 | BH02_CONCRETE | Sep 03, 2021 | | Soil | B21-Se12727 | | X | | | | | | | |
| 78 | BH04_CONCRETE | Sep 03, 2021 | | Soil | B21-Se12728 | | X | | | | | | | |
| **Test Counts** | | | | | | 10 | 23 | 10 | 8 | 52 | 54 | 44 | 52 | 1 |

## Internal Quality Control Review and Glossary

### General

1. 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.
3. 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.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue 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/100mL:** Organisms per 100 millilitres | **NTU:** Nephelometric Turbidity Units | **MPN/100mL:** Most Probable Number of organisms per 100 millilitres |

### Terms

| | |
|---|---|
| **Dry** | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| **LOR** | Limit of Reporting. |
| **SPIKE** | Addition of the analyte to the sample and reported as percentage recovery. |
| **RPD** | Relative Percent Difference between two Duplicate pieces of analysis. |
| **LCS** | Laboratory Control Sample - reported as percent recovery. |
| **CRM** | Certified Reference Material - 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. |
| **Surr - Surrogate** | The addition of a like compound to the analyte target and reported as percentage recovery. |
| **Duplicate** | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| **USEPA** | United States Environmental Protection Agency |
| **APHA** | American Public Health Association |
| **TCLP** | Toxicity Characteristic Leaching Procedure |
| **COC** | Chain of Custody |
| **SRA** | Sample Receipt Advice |
| **QSM** | US Department of Defense Quality Systems Manual Version 5.4 |
| **CP** | Client Parent - QC was performed on samples pertaining to this report |
| **NCP** | 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. |
| **TEQ** | Toxic Equivalency Quotient |
| **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

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

1. 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.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

**Quality Control Results**

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|
| **Method Blank** | | | | | | | |
| **Organochlorine Pesticides** | | | | | | | |
| Chlordanes - Total | mg/kg | < 0.1 | | | 0.1 | Pass | |
| 4.4'-DDD | mg/kg | < 0.05 | | | 0.05 | Pass | |
| 4.4'-DDE | mg/kg | < 0.05 | | | 0.05 | Pass | |
| 4.4'-DDT | mg/kg | < 0.05 | | | 0.05 | Pass | |
| a-HCH | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Aldrin | mg/kg | < 0.05 | | | 0.05 | Pass | |
| b-HCH | mg/kg | < 0.05 | | | 0.05 | Pass | |
| d-HCH | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Dieldrin | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endosulfan I | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endosulfan II | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endosulfan sulphate | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endrin | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endrin aldehyde | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endrin ketone | mg/kg | < 0.05 | | | 0.05 | Pass | |
| g-HCH (Lindane) | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Heptachlor | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Heptachlor epoxide | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Hexachlorobenzene | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Methoxychlor | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Toxaphene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| **Method Blank** | | | | | | | |
| **Organophosphorus Pesticides** | | | | | | | |
| Azinphos-methyl | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Bolstar | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Chlorfenvinphos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Chlorpyrifos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Chlorpyrifos-methyl | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Coumaphos | mg/kg | < 2 | | | 2 | Pass | |
| Demeton-S | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Demeton-O | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Diazinon | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Dichlorvos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Dimethoate | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Disulfoton | mg/kg | < 0.2 | | | 0.2 | Pass | |
| EPN | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Ethion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Ethoprop | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Ethyl parathion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Fenitrothion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Fensulfothion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Fenthion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Malathion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Merphos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Methyl parathion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Mevinphos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Monocrotophos | mg/kg | < 2 | | | 2 | Pass | |
| Naled | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Omethoate | mg/kg | < 2 | | | 2 | Pass | |
| Phorate | mg/kg | < 0.2 | | | 0.2 | Pass | |

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|
| Pirimiphos-methyl | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Pyrazophos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Ronnel | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Terbufos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Tetrachlorvinphos | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Tokuthion | mg/kg | < 0.2 | | | 0.2 | Pass | |
| Trichloronate | mg/kg | < 0.2 | | | 0.2 | Pass | |
| **Method Blank** | | | | | | | |
| **Heavy Metals** | | | | | | | |
| Arsenic | mg/kg | < 2 | | | 2 | Pass | |
| Cadmium | mg/kg | < 0.4 | | | 0.4 | Pass | |
| Chromium | mg/kg | < 5 | | | 5 | Pass | |
| Copper | mg/kg | < 5 | | | 5 | Pass | |
| Lead | mg/kg | < 5 | | | 5 | Pass | |
| Mercury | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Nickel | mg/kg | < 5 | | | 5 | Pass | |
| Zinc | mg/kg | < 5 | | | 5 | Pass | |
| **Method Blank** | | | | | | | |
| Naphthalene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| **Method Blank** | | | | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | | |
| Acenaphthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Acenaphthylene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benz(a)anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(a)pyrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(b&j)fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(g.h.i)perylene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Benzo(k)fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Chrysene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Dibenz(a.h)anthracene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Fluoranthene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Fluorene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Indeno(1.2.3-cd)pyrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Naphthalene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Phenanthrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Pyrene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| **Method Blank** | | | | | | | |
| **Total Recoverable Hydrocarbons - 1999 NEPM Fractions** | | | | | | | |
| TRH C6-C9 | mg/kg | < 20 | | | 20 | Pass | |
| **Method Blank** | | | | | | | |
| **BTEX** | | | | | | | |
| Benzene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Toluene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Ethylbenzene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| m&p-Xylenes | mg/kg | < 0.2 | | | 0.2 | Pass | |
| o-Xylene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Xylenes - Total* | mg/kg | < 0.3 | | | 0.3 | Pass | |
| **Method Blank** | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | | |
| TRH C6-C10 | mg/kg | < 20 | | | 20 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Organochlorine Pesticides** | | | | | | | |
| Chlordanes - Total | % | 100 | | | 70-130 | Pass | |

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|
| 4.4'-DDD | % | 120 | | | 70-130 | Pass | |
| 4.4'-DDE | % | 119 | | | 70-130 | Pass | |
| 4.4'-DDT | % | 108 | | | 70-130 | Pass | |
| a-HCH | % | 110 | | | 70-130 | Pass | |
| Aldrin | % | 127 | | | 70-130 | Pass | |
| b-HCH | % | 128 | | | 70-130 | Pass | |
| d-HCH | % | 120 | | | 70-130 | Pass | |
| Dieldrin | % | 109 | | | 70-130 | Pass | |
| Endosulfan I | % | 114 | | | 70-130 | Pass | |
| Endosulfan II | % | 125 | | | 70-130 | Pass | |
| Endosulfan sulphate | % | 112 | | | 70-130 | Pass | |
| Endrin | % | 110 | | | 70-130 | Pass | |
| Endrin aldehyde | % | 91 | | | 70-130 | Pass | |
| Endrin ketone | % | 99 | | | 70-130 | Pass | |
| g-HCH (Lindane) | % | 112 | | | 70-130 | Pass | |
| Heptachlor | % | 97 | | | 70-130 | Pass | |
| Heptachlor epoxide | % | 100 | | | 70-130 | Pass | |
| Hexachlorobenzene | % | 99 | | | 70-130 | Pass | |
| Methoxychlor | % | 110 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Organophosphorus Pesticides** | | | | | | | |
| Diazinon | % | 127 | | | 70-130 | Pass | |
| Dimethoate | % | 126 | | | 70-130 | Pass | |
| Ethion | % | 100 | | | 70-130 | Pass | |
| Fenitrothion | % | 102 | | | 70-130 | Pass | |
| Methyl parathion | % | 113 | | | 70-130 | Pass | |
| Mevinphos | % | 85 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Heavy Metals** | | | | | | | |
| Arsenic | % | 108 | | | 80-120 | Pass | |
| Cadmium | % | 110 | | | 80-120 | Pass | |
| Chromium | % | 110 | | | 80-120 | Pass | |
| Copper | % | 117 | | | 80-120 | Pass | |
| Lead | % | 117 | | | 80-120 | Pass | |
| Mercury | % | 112 | | | 80-120 | Pass | |
| Nickel | % | 108 | | | 80-120 | Pass | |
| Zinc | % | 111 | | | 80-120 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| Naphthalene | % | 125 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | | |
| Acenaphthene | % | 95 | | | 70-130 | Pass | |
| Acenaphthylene | % | 120 | | | 70-130 | Pass | |
| Anthracene | % | 116 | | | 70-130 | Pass | |
| Benz(a)anthracene | % | 99 | | | 70-130 | Pass | |
| Benzo(a)pyrene | % | 97 | | | 70-130 | Pass | |
| Benzo(b&j)fluoranthene | % | 115 | | | 70-130 | Pass | |
| Benzo(g.h.i)perylene | % | 113 | | | 70-130 | Pass | |
| Benzo(k)fluoranthene | % | 99 | | | 70-130 | Pass | |
| Chrysene | % | 99 | | | 70-130 | Pass | |
| Dibenz(a.h)anthracene | % | 99 | | | 70-130 | Pass | |
| Fluoranthene | % | 128 | | | 70-130 | Pass | |
| Fluorene | % | 99 | | | 70-130 | Pass | |
| Indeno(1.2.3-cd)pyrene | % | 95 | | | 70-130 | Pass | |

| Test | | | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | | | % | 97 | | | 70-130 | Pass | |
| Phenanthrene | | | % | 129 | | | 70-130 | Pass | |
| Pyrene | | | % | 88 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | | | |
| **Total Recoverable Hydrocarbons - 1999 NEPM Fractions** | | | | | | | | | |
| TRH C6-C9 | | | % | 115 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | | | |
| **BTEX** | | | | | | | | | |
| Benzene | | | % | 91 | | | 70-130 | Pass | |
| Toluene | | | % | 94 | | | 70-130 | Pass | |
| Ethylbenzene | | | % | 95 | | | 70-130 | Pass | |
| m&p-Xylenes | | | % | 94 | | | 70-130 | Pass | |
| Xylenes - Total* | | | % | 93 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | | | | |
| TRH C6-C10 | | | % | 110 | | | 70-130 | Pass | |
| **Test** | **Lab Sample ID** | **QA Source** | **Units** | **Result 1** | | | **Acceptance Limits** | **Pass Limits** | **Qualifying Code** |
| **Spike - % Recovery** | | | | | | | | | |
| **Organochlorine Pesticides** | | | | Result 1 | | | | | |
| Chlordanes - Total | M21-Se24245 | NCP | % | 93 | | | 70-130 | Pass | |
| 4.4'-DDD | M21-Se24245 | NCP | % | 117 | | | 70-130 | Pass | |
| 4.4'-DDE | M21-Se24245 | NCP | % | 88 | | | 70-130 | Pass | |
| 4.4'-DDT | M21-Se24245 | NCP | % | 93 | | | 70-130 | Pass | |
| a-HCH | M21-Se24245 | NCP | % | 118 | | | 70-130 | Pass | |
| Aldrin | M21-Se24245 | NCP | % | 122 | | | 70-130 | Pass | |
| b-HCH | M21-Se24245 | NCP | % | 94 | | | 70-130 | Pass | |
| d-HCH | M21-Se24245 | NCP | % | 78 | | | 70-130 | Pass | |
| Dieldrin | M21-Se24245 | NCP | % | 110 | | | 70-130 | Pass | |
| Endosulfan I | M21-Se24245 | NCP | % | 119 | | | 70-130 | Pass | |
| Endosulfan II | M21-Se24245 | NCP | % | 85 | | | 70-130 | Pass | |
| Endosulfan sulphate | M21-Se24245 | NCP | % | 78 | | | 70-130 | Pass | |
| Endrin | M21-Se24245 | NCP | % | 109 | | | 70-130 | Pass | |
| Endrin aldehyde | M21-Se24245 | NCP | % | 90 | | | 70-130 | Pass | |
| Endrin ketone | M21-Se24245 | NCP | % | 86 | | | 70-130 | Pass | |
| g-HCH (Lindane) | M21-Se24245 | NCP | % | 85 | | | 70-130 | Pass | |
| Heptachlor | M21-Se24245 | NCP | % | 89 | | | 70-130 | Pass | |
| Heptachlor epoxide | M21-Se24245 | NCP | % | 93 | | | 70-130 | Pass | |
| Hexachlorobenzene | M21-Se24245 | NCP | % | 106 | | | 70-130 | Pass | |
| Methoxychlor | M21-Se24245 | NCP | % | 96 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | | | | | |
| Arsenic | M21-Se12406 | NCP | % | 82 | | | 75-125 | Pass | |
| Cadmium | M21-Se12406 | NCP | % | 109 | | | 75-125 | Pass | |
| Chromium | M21-Se12406 | NCP | % | 85 | | | 75-125 | Pass | |
| Copper | M21-Se12406 | NCP | % | 88 | | | 75-125 | Pass | |
| Lead | M21-Se12406 | NCP | % | 88 | | | 75-125 | Pass | |
| Mercury | M21-Se12406 | NCP | % | 109 | | | 75-125 | Pass | |
| Nickel | M21-Se12406 | NCP | % | 84 | | | 75-125 | Pass | |
| Zinc | M21-Se12406 | NCP | % | 109 | | | 75-125 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | Result 1 | | | | | |
| Acenaphthene | M21-Se12548 | NCP | % | 92 | | | 70-130 | Pass | |
| Acenaphthylene | M21-Se12548 | NCP | % | 95 | | | 70-130 | Pass | |
| Anthracene | M21-Se12548 | NCP | % | 108 | | | 70-130 | Pass | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|---|---|
| Benz(a)anthracene | M21-Se12548 | NCP | % | 73 | | | 70-130 | Pass | |
| Benzo(a)pyrene | M21-Se12548 | NCP | % | 102 | | | 70-130 | Pass | |
| Benzo(b&j)fluoranthene | M21-Se12548 | NCP | % | 89 | | | 70-130 | Pass | |
| Benzo(g.h.i)perylene | M21-Se12548 | NCP | % | 81 | | | 70-130 | Pass | |
| Benzo(k)fluoranthene | M21-Se12548 | NCP | % | 84 | | | 70-130 | Pass | |
| Chrysene | M21-Se12548 | NCP | % | 88 | | | 70-130 | Pass | |
| Dibenz(a.h)anthracene | M21-Se12548 | NCP | % | 77 | | | 70-130 | Pass | |
| Fluoranthene | M21-Se12548 | NCP | % | 92 | | | 70-130 | Pass | |
| Fluorene | M21-Se12548 | NCP | % | 72 | | | 70-130 | Pass | |
| Indeno(1.2.3-cd)pyrene | M21-Se12548 | NCP | % | 74 | | | 70-130 | Pass | |
| Naphthalene | M21-Se12548 | NCP | % | 111 | | | 70-130 | Pass | |
| Phenanthrene | M21-Se12548 | NCP | % | 83 | | | 70-130 | Pass | |
| Pyrene | M21-Se12548 | NCP | % | 88 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| | | | | Result 1 | | | | | |
| Naphthalene | M21-Se10259 | NCP | % | 93 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Total Recoverable Hydrocarbons - 1999 NEPM Fractions** | | | | Result 1 | | | | | |
| TRH C6-C9 | M21-Se10259 | NCP | % | 85 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **BTEX** | | | | Result 1 | | | | | |
| Benzene | M21-Se10259 | NCP | % | 85 | | | 70-130 | Pass | |
| Toluene | M21-Se10259 | NCP | % | 89 | | | 70-130 | Pass | |
| Ethylbenzene | M21-Se10259 | NCP | % | 88 | | | 70-130 | Pass | |
| m&p-Xylenes | M21-Se10259 | NCP | % | 87 | | | 70-130 | Pass | |
| o-Xylene | M21-Se10259 | NCP | % | 87 | | | 70-130 | Pass | |
| Xylenes - Total* | M21-Se10259 | NCP | % | 87 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | Result 1 | | | | | |
| TRH C6-C10 | M21-Se10259 | NCP | % | 71 | | | 70-130 | Pass | |
| **Test** | **Lab Sample ID** | **QA Source** | **Units** | **Result 1** | | | **Acceptance Limits** | **Pass Limits** | **Qualifying Code** |
| **Duplicate** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic | M21-Se12406 | NCP | mg/kg | 4.9 | 5.0 | 2.0 | 30% | Pass | |
| Cadmium | M21-Se12406 | NCP | mg/kg | < 0.4 | < 0.4 | <1 | 30% | Pass | |
| Chromium | M21-Se12406 | NCP | mg/kg | 16 | 17 | 6.0 | 30% | Pass | |
| Copper | M21-Se12406 | NCP | mg/kg | 21 | 22 | 1.0 | 30% | Pass | |
| Lead | M21-Se12406 | NCP | mg/kg | 23 | 23 | <1 | 30% | Pass | |
| Mercury | M21-Se12406 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Nickel | M21-Se12406 | NCP | mg/kg | 19 | 19 | <1 | 30% | Pass | |
| Zinc | M21-Se12406 | NCP | mg/kg | 140 | 140 | 1.0 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| % Moisture | B21-Se11788 | CP | % | 11 | 10 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Organochlorine Pesticides** | | | | Result 1 | Result 2 | RPD | | | |
| Chlordanes - Total | B21-Se11794 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| 4.4'-DDD | B21-Se11794 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| 4.4'-DDE | B21-Se11794 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| 4.4'-DDT | B21-Se11794 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| a-HCH | B21-Se11794 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Aldrin | B21-Se11794 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| b-HCH | B21-Se11794 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| d-HCH | B21-Se11794 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Duplicate** | | | | | | | | | |
| **Organochlorine Pesticides** | | | | Result 1 | Result 2 | RPD | | | |
| Dieldrin | B21-Se11794 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan I | B21-Se11794 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan II | B21-Se11794 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan sulphate | B21-Se11794 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin | B21-Se11794 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin aldehyde | B21-Se11794 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin ketone | B21-Se11794 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| g-HCH (Lindane) | B21-Se11794 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Heptachlor | B21-Se11794 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Heptachlor epoxide | B21-Se11794 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Hexachlorobenzene | B21-Se11794 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Methoxychlor | B21-Se11794 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Toxaphene | B21-Se11794 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | Result 1 | Result 2 | RPD | | | |
| Acenaphthene | B21-Se11794 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Acenaphthylene | B21-Se11794 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Anthracene | B21-Se11794 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benz(a)anthracene | B21-Se11794 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(a)pyrene | B21-Se11794 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(b&j)fluoranthene | B21-Se11794 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(g.h.i)perylene | B21-Se11794 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(k)fluoranthene | B21-Se11794 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Chrysene | B21-Se11794 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Dibenz(a.h)anthracene | B21-Se11794 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Fluoranthene | B21-Se11794 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Fluorene | B21-Se11794 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Indeno(1.2.3-cd)pyrene | B21-Se11794 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Naphthalene | B21-Se11794 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Phenanthrene | B21-Se11794 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Pyrene | B21-Se11794 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| % Moisture | B21-Se11798 | CP | % | 14 | 14 | 2.0 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| % Moisture | B21-Se11808 | CP | % | 15 | 14 | 9.0 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Organochlorine Pesticides** | | | | Result 1 | Result 2 | RPD | | | |
| Chlordanes - Total | B21-Se11811 | CP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| 4.4'-DDD | B21-Se11811 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| 4.4'-DDE | B21-Se11811 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| 4.4'-DDT | B21-Se11811 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| a-HCH | B21-Se11811 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Aldrin | B21-Se11811 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| b-HCH | B21-Se11811 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| d-HCH | B21-Se11811 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Dieldrin | B21-Se11811 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan I | B21-Se11811 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan II | B21-Se11811 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan sulphate | B21-Se11811 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin | B21-Se11811 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin aldehyde | B21-Se11811 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin ketone | B21-Se11811 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Duplicate** | | | | | | | | | |
| **Organochlorine Pesticides** | | | | Result 1 | Result 2 | RPD | | | |
| g-HCH (Lindane) | B21-Se11811 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Heptachlor | B21-Se11811 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Heptachlor epoxide | B21-Se11811 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Hexachlorobenzene | B21-Se11811 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Methoxychlor | B21-Se11811 | CP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Toxaphene | B21-Se11811 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Organophosphorus Pesticides** | | | | Result 1 | Result 2 | RPD | | | |
| Azinphos-methyl | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Bolstar | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Chlorfenvinphos | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Chlorpyrifos | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Chlorpyrifos-methyl | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Coumaphos | B21-Se11811 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass | |
| Demeton-S | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Demeton-O | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Diazinon | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Dichlorvos | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Dimethoate | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Disulfoton | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| EPN | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Ethion | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Ethoprop | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Ethyl parathion | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Fenitrothion | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Fensulfothion | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Fenthion | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Malathion | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Merphos | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Methyl parathion | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Mevinphos | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Monocrotophos | B21-Se11811 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass | |
| Naled | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Omethoate | B21-Se11811 | CP | mg/kg | < 2 | < 2 | <1 | 30% | Pass | |
| Phorate | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Pirimiphos-methyl | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Pyrazophos | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Ronnel | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Terbufos | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Tetrachlorvinphos | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Tokuthion | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| Trichloronate | B21-Se11811 | CP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | Result 1 | Result 2 | RPD | | | |
| Acenaphthene | B21-Se11811 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Acenaphthylene | B21-Se11811 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Anthracene | B21-Se11811 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benz(a)anthracene | B21-Se11811 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(a)pyrene | B21-Se11811 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(b&j)fluoranthene | B21-Se11811 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(g.h.i)perylene | B21-Se11811 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Benzo(k)fluoranthene | B21-Se11811 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Chrysene | B21-Se11811 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Dibenz(a.h)anthracene | B21-Se11811 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Duplicate** | | | | | | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | Result 1 | Result 2 | RPD | | | |
| Fluoranthene | B21-Se11811 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Fluorene | B21-Se11811 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Indeno(1.2.3-cd)pyrene | B21-Se11811 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Naphthalene | B21-Se11811 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Phenanthrene | B21-Se11811 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Pyrene | B21-Se11811 | CP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| % Moisture | B21-Se11818 | CP | % | 9.6 | 10 | 5.0 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| % Moisture | B21-Se11838 | CP | % | 9.5 | 8.4 | 13 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| Naphthalene | M21-Se14926 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Total Recoverable Hydrocarbons - 1999 NEPM Fractions** | | | | Result 1 | Result 2 | RPD | | | |
| TRH C6-C9 | M21-Se14926 | NCP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **BTEX** | | | | Result 1 | Result 2 | RPD | | | |
| Benzene | M21-Se14926 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Toluene | M21-Se14926 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Ethylbenzene | M21-Se14926 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| m&p-Xylenes | M21-Se14926 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| o-Xylene | M21-Se14926 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Xylenes - Total* | M21-Se14926 | NCP | mg/kg | < 0.3 | < 0.3 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | Result 1 | Result 2 | RPD | | | |
| TRH C6-C10 | M21-Se14926 | NCP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |

## Comments

Report has been revised to V2 to include OPP for samples BH01_0.1, BH02_0.1, BH03_0.1, BH04_0.1, BH05_0.1, BH06_0.1, BH07_0.1, BH12_0.1, BH13_0.1, BH14_0.1, BH15_0.1, BH16_0.1, BH17_0.1, BH18_0.1, BH19_0.1, BH20_0.1, BH21_0.1.

## Sample Integrity

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

## Qualifier Codes/Comments

| Code | Description |
|---|---|
| G01 | The LORs have been raised due to matrix interference |
| N02 | Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid. |
| N04 | F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes. |
| N07 | Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs |

## Authorised by:

| | |
|---|---|
| James McCann | Analytical Services Manager |
| Vivian Wang | Senior Analyst-Volatile (VIC) |
| Joseph Edouard | Senior Analyst-Organic (VIC) |
| Emily Rosenberg | Senior Analyst-Metal (VIC) |
| Sophie Bush | Senior Analyst-Asbestos (VIC) |

**Glenn Jackson**
**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 or please click here.

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# Certificate of Analysis

**Coffey Environments Pty Ltd QLD**
**Level 5, 12 Creek Street**
**Brisbane**
**QLD 4000**

**NATA Accredited**
**Accreditation Number 1261**
**Site Number 1254**

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:** **Jeremy Wicks**

**Report** **822538-W-V2**
Project name 754-BNEEN282781 DVA GREENSLOPES
Received Date Sep 06, 2021

| **Client Sample ID** | | | **QC13_210903** | **QC14_210903** |
|---|---|---|---|---|
| **Sample Matrix** | | | **Water** | **Water** |
| **Eurofins Sample No.** | | | **B21-Se11842** | **B21-Se11843** |
| **Date Sampled** | | | **Sep 03, 2021** | **Sep 03, 2021** |
| Test/Reference | LOR | Unit | | |
| **Organochlorine Pesticides** | | | | |
| Chlordanes - Total | 0.002 | mg/L | < 0.002 | < 0.002 |
| 4.4'-DDD | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| 4.4'-DDE | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| 4.4'-DDT | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| a-HCH | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| Aldrin | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| b-HCH | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| d-HCH | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| Dieldrin | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| Endosulfan I | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| Endosulfan II | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| Endosulfan sulphate | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| Endrin | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| Endrin aldehyde | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| Endrin ketone | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| g-HCH (Lindane) | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| Heptachlor | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| Heptachlor epoxide | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| Hexachlorobenzene | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| Methoxychlor | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| Toxaphene | 0.005 | mg/L | < 0.005 | < 0.005 |
| Aldrin and Dieldrin (Total)* | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| DDT + DDE + DDD (Total)* | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| Vic EPA IWRG 621 OCP (Total)* | 0.002 | mg/L | < 0.002 | < 0.002 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.002 | mg/L | < 0.002 | < 0.002 |
| Dibutylchlorendate (surr.) | 1 | % | 65 | 75 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 111 | 86 |
| **Heavy Metals** | | | | |
| Arsenic | 0.001 | mg/L | < 0.001 | < 0.001 |
| Cadmium | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| Chromium | 0.001 | mg/L | < 0.001 | < 0.001 |
| Copper | 0.001 | mg/L | < 0.001 | < 0.001 |
| Lead | 0.001 | mg/L | < 0.001 | < 0.001 |
| Mercury | 0.0001 | mg/L | < 0.0001 | < 0.0001 |
| Nickel | 0.001 | mg/L | < 0.001 | < 0.001 |
| Zinc | 0.005 | mg/L | < 0.005 | < 0.005 |

| Client Sample ID | | | QC13_210903 | QC14_210903 |
|---|---|---|---|---|
| Sample Matrix | | | Water | Water |
| Eurofins Sample No. | | | B21-Se11842 | B21-Se11843 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | |
| Acenaphthene | 0.001 | mg/L | - | < 0.001 |
| Acenaphthylene | 0.001 | mg/L | - | < 0.001 |
| Anthracene | 0.001 | mg/L | - | < 0.001 |
| Benz(a)anthracene | 0.001 | mg/L | - | < 0.001 |
| Benzo(a)pyrene | 0.001 | mg/L | - | < 0.001 |
| Benzo(b&j)fluoranthene[N07] | 0.001 | mg/L | - | < 0.001 |
| Benzo(g.h.i)perylene | 0.001 | mg/L | - | < 0.001 |
| Benzo(k)fluoranthene | 0.001 | mg/L | - | < 0.001 |
| Chrysene | 0.001 | mg/L | - | < 0.001 |
| Dibenz(a.h)anthracene | 0.001 | mg/L | - | < 0.001 |
| Fluoranthene | 0.001 | mg/L | - | < 0.001 |
| Fluorene | 0.001 | mg/L | - | < 0.001 |
| Indeno(1.2.3-cd)pyrene | 0.001 | mg/L | - | < 0.001 |
| Naphthalene | 0.001 | mg/L | - | < 0.001 |
| Phenanthrene | 0.001 | mg/L | - | < 0.001 |
| Pyrene | 0.001 | mg/L | - | < 0.001 |
| Total PAH* | 0.001 | mg/L | - | < 0.001 |
| 2-Fluorobiphenyl (surr.) | 1 | % | - | 94 |
| p-Terphenyl-d14 (surr.) | 1 | % | - | 69 |

## 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 |
|---|---|---|---|
| Organochlorine Pesticides | Melbourne | Sep 14, 2021 | 7 Days |
| - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270) | | | |
| Metals M8 | Melbourne | Sep 07, 2021 | 28 Days |
| - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | | | |
| Polycyclic Aromatic Hydrocarbons | Melbourne | Sep 14, 2021 | 7 Days |
| - Method: LTM-ORG-2130 PAH and Phenols in Soil and Water | | | |

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NATA # 1261 Site # 20794

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**Company Name:** Coffey Environments Pty Ltd QLD
**Address:** Level 5, 12 Creek Street
Brisbane
QLD 4000

**Project Name:** 754-BNEEN282781 DVA GREENSLOPES

**Order No.:**
**Report #:** 822538
**Phone:** 07 3503 7192
**Fax:**

**Received:** Sep 6, 2021 3:51 PM
**Due:** Sep 13, 2021
**Priority:** 5 Day
**Contact Name:** Jeremy Wicks

**Eurofins Analytical Services Manager : Alana Wadsworth**

| Sample Detail | | | | | | Asbestos - AS4964 | HOLD | Sample preparation - crushing | Polycyclic Aromatic Hydrocarbons | Organochlorine Pesticides | Organophosphorus Pesticides | Metals M8 | Moisture Set | BTEXN and Volatile TRH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X | X | X | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | | | | | | | | | |
| 1 | BH01_0.1 | Sep 03, 2021 | | Soil | B21-Se11788 | | | | | X | X | X | X | |
| 2 | BH02_0.1 | Sep 03, 2021 | | Soil | B21-Se11789 | | | | | X | X | X | X | |
| 3 | BH03_0.1 | Sep 03, 2021 | | Soil | B21-Se11790 | | | | | X | X | X | X | |
| 4 | BH04_0.1 | Sep 03, 2021 | | Soil | B21-Se11791 | | | | | X | X | X | X | |
| 5 | BH05_0.1 | Sep 03, 2021 | | Soil | B21-Se11792 | | | | | X | X | X | X | |
| 6 | BH06_0.1 | Sep 03, 2021 | | Soil | B21-Se11793 | | | | | X | X | X | X | |
| 7 | BH06_0.3 | Sep 03, 2021 | | Soil | B21-Se11794 | X | | | X | X | X | X | X | |
| 8 | BH06_0.5 | Sep 03, 2021 | | Soil | B21-Se11795 | | | | | X | X | X | X | |
| 9 | BH07_0.1 | Sep 03, 2021 | | Soil | B21-Se11796 | X | | | | X | X | X | X | |
| 10 | BH07_0.3 | Sep 03, 2021 | | Soil | B21-Se11797 | | | | | X | X | X | X | |

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IANZ # 1290

**Company Name:** Coffey Environments Pty Ltd QLD
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**Priority:** 5 Day
**Contact Name:** Jeremy Wicks

**Eurofins Analytical Services Manager : Alana Wadsworth**

| Sample Detail | | | | | | Asbestos - AS4964 | HOLD | Sample preparation - crushing | Polycyclic Aromatic Hydrocarbons | Organochlorine Pesticides | Organophosphorus Pesticides | Metals M8 | Moisture Set | BTEXN and Volatile TRH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X | X | X | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| 11 | BH08_0.1 | Sep 03, 2021 | | Soil | B21-Se11798 | | | | | X | X | X | X | |
| 12 | BH08_0.3 | Sep 03, 2021 | | Soil | B21-Se11799 | | | | | X | X | X | X | |
| 13 | BH12_0.1 | Sep 03, 2021 | | Soil | B21-Se11800 | X | | | | X | X | X | X | |
| 14 | BH13_0.1 | Sep 03, 2021 | | Soil | B21-Se11801 | X | | | | X | X | X | X | |
| 15 | BH14_0.1 | Sep 03, 2021 | | Soil | B21-Se11802 | X | | | | X | X | X | X | |
| 16 | BH14_0.3 | Sep 03, 2021 | | Soil | B21-Se11803 | | | | | X | X | X | X | |
| 17 | BH14_0.5 | Sep 03, 2021 | | Soil | B21-Se11804 | | | | | X | X | X | X | |
| 18 | BH15_0.1 | Sep 03, 2021 | | Soil | B21-Se11805 | | | | | X | X | X | X | |
| 19 | BH15_0.3 | Sep 03, 2021 | | Soil | B21-Se11806 | | | | | X | X | X | X | |
| 20 | BH15_0.5 | Sep 03, 2021 | | Soil | B21-Se11807 | | | | | X | X | X | X | |
| 21 | BH16_0.1 | Sep 03, 2021 | | Soil | B21-Se11808 | X | | | | X | X | X | X | |

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**Company Name:** Coffey Environments Pty Ltd QLD
**Address:** Level 5, 12 Creek Street
Brisbane
QLD 4000

**Project Name:** 754-BNEEN282781 DVA GREENSLOPES

**Order No.:**
**Report #:** 822538
**Phone:** 07 3503 7192
**Fax:**

**Received:** Sep 6, 2021 3:51 PM
**Due:** Sep 13, 2021
**Priority:** 5 Day
**Contact Name:** Jeremy Wicks

**Eurofins Analytical Services Manager : Alana Wadsworth**

| Sample Detail | | | | | | Asbestos - AS4964 | HOLD | Sample preparation - crushing | Polycyclic Aromatic Hydrocarbons | Organochlorine Pesticides | Organophosphorus Pesticides | Metals M8 | Moisture Set | BTEXN and Volatile TRH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X | X | X | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| 22 | BH16_0.3 | Sep 03, 2021 | | Soil | B21-Se11809 | | | | | X | X | X | X | |
| 23 | BH16_0.5 | Sep 03, 2021 | | Soil | B21-Se11810 | | | | | X | X | X | X | |
| 24 | BH17_0.1 | Sep 03, 2021 | | Soil | B21-Se11811 | X | | | | X | X | X | X | |
| 25 | BH17_0.3 | Sep 03, 2021 | | Soil | B21-Se11812 | | | | | X | X | X | X | |
| 26 | BH17_0.5 | Sep 03, 2021 | | Soil | B21-Se11813 | | | | X | X | X | X | X | |
| 27 | BH18_0.1 | Sep 03, 2021 | | Soil | B21-Se11814 | X | | | | X | X | X | X | |
| 28 | BH18_0.3 | Sep 03, 2021 | | Soil | B21-Se11815 | | | | | X | X | X | X | |
| 29 | BH18_0.5 | Sep 03, 2021 | | Soil | B21-Se11816 | | | | X | X | X | X | X | |
| 30 | BH19_0.1 | Sep 03, 2021 | | Soil | B21-Se11817 | X | | | | X | X | X | X | |
| 31 | BH19_0.3 | Sep 03, 2021 | | Soil | B21-Se11818 | | | | X | X | X | X | X | |
| 32 | BH19_0.5 | Sep 03, 2021 | | Soil | B21-Se11819 | | | | | X | X | X | X | |

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| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | | | | | |
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| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| 33 | BH20_0.1 | Sep 03, 2021 | | Soil | B21-Se11820 | X | | | | X | X | X | X | |
| 34 | BH20_0.3 | Sep 03, 2021 | | Soil | B21-Se11821 | | | | | X | X | X | X | |
| 35 | BH20_0.5 | Sep 03, 2021 | | Soil | B21-Se11822 | | | | | X | X | X | X | |
| 36 | BH21_0.1 | Sep 03, 2021 | | Soil | B21-Se11823 | | | | | X | X | X | X | |
| 37 | BH21_0.3 | Sep 03, 2021 | | Soil | B21-Se11824 | | | | | X | X | X | X | |
| 38 | BH21_0.5 | Sep 03, 2021 | | Soil | B21-Se11825 | | | | | X | X | X | X | |
| 39 | SLAG-1 | Sep 03, 2021 | | Soil | B21-Se11826 | | | | X | | X | X | X | |
| 40 | SLAG-2 | Sep 03, 2021 | | Soil | B21-Se11827 | | | | X | | X | X | X | |
| 41 | BH01_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11828 | | | X | | X | X | | X | |
| 42 | BH03_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11829 | | | X | | X | X | | X | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X | X | X | X | X |
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| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| 43 | BH05_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11830 | | | X | | X | X | | X | |
| 44 | BH06_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11831 | | | X | | X | X | | X | |
| 45 | BH07_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11832 | | | X | | X | X | | X | |
| 46 | BH08_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11833 | | | X | | X | X | | X | |
| 47 | BH09_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11834 | | | X | | X | X | | X | |
| 48 | BH10_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11835 | | | X | | X | X | | X | |
| 49 | BH11_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11836 | | | X | | X | X | | X | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X | X | X | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | | | | | |
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| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| 50 | BH21_CONCRETE | Sep 03, 2021 | | Soil | B21-Se11837 | | | X | | X | X | | X | |
| 51 | QC01_210903 | Sep 03, 2021 | | Soil | B21-Se11838 | | | | X | X | X | X | X | |
| 52 | QC09_210903 | Sep 03, 2021 | | Soil | B21-Se11840 | | | | | X | X | X | X | |
| 53 | QC13_210903 | Sep 03, 2021 | | Water | B21-Se11842 | | | | | X | X | X | | |
| 54 | QC14_210903 | Sep 03, 2021 | | Water | B21-Se11843 | | | | X | X | X | X | | |
| 55 | TRIP BLANK | Sep 03, 2021 | | Trip Blank (solid) | B21-Se11844 | | | | | | | | | X |
| 56 | BH01_0.3 | Sep 03, 2021 | | Soil | B21-Se11845 | | X | | | | | | | |
| 57 | BH01_0.5 | Sep 03, 2021 | | Soil | B21-Se11846 | | X | | | | | | | |
| 58 | BH02_0.3 | Sep 03, 2021 | | Soil | B21-Se11847 | | X | | | | | | | |
| 59 | BH02_0.5 | Sep 03, 2021 | | Soil | B21-Se11848 | | X | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X | X | X | X | X |
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| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | | | | | |
| 60 | BH03_0.3 | Sep 03, 2021 | | Soil | B21-Se11849 | | X | | | | | | | |
| 61 | BH03_0.5 | Sep 03, 2021 | | Soil | B21-Se11850 | | X | | | | | | | |
| 62 | BH04_0.3 | Sep 03, 2021 | | Soil | B21-Se11851 | | X | | | | | | | |
| 63 | BH04_0.5 | Sep 03, 2021 | | Soil | B21-Se11852 | | X | | | | | | | |
| 64 | BH05_0.3 | Sep 03, 2021 | | Soil | B21-Se11853 | | X | | | | | | | |
| 65 | BH05_0.5 | Sep 03, 2021 | | Soil | B21-Se11854 | | X | | | | | | | |
| 66 | BH07_0.5 | Sep 03, 2021 | | Soil | B21-Se11855 | | X | | | | | | | |
| 67 | BH08_0.5 | Sep 03, 2021 | | Soil | B21-Se11856 | | X | | | | | | | |
| 68 | QC03_21093 | Sep 03, 2021 | | Soil | B21-Se11857 | | X | | | | | | | |
| 69 | QC04_21093 | Sep 03, 2021 | | Soil | B21-Se11858 | | X | | | | | | | |
| 70 | QC05_21093 | Sep 03, 2021 | | Soil | B21-Se11859 | | X | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X | X | X | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | | | | | |
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| **External Laboratory** | | | | | | | | | | | | | | |
| 71 | QC06_21093 | Sep 03, 2021 | | Soil | B21-Se11860 | | X | | | | | | | |
| 72 | QC07_21093 | Sep 03, 2021 | | Soil | B21-Se11861 | | X | | | | | | | |
| 73 | QC08_21093 | Sep 03, 2021 | | Soil | B21-Se11862 | | X | | | | | | | |
| 74 | QC11_21093 | Sep 03, 2021 | | Soil | B21-Se11863 | | X | | | | | | | |
| 75 | QC12_21093 | Sep 03, 2021 | | Soil | B21-Se11864 | | X | | | | | | | |
| 76 | Spike 1 | Sep 03, 2021 | | Soil | B21-Se12715 | | X | | | | | | | |
| 77 | BH02_CONCRETE | Sep 03, 2021 | | Soil | B21-Se12727 | | X | | | | | | | |
| 78 | BH04_CONCRETE | Sep 03, 2021 | | Soil | B21-Se12728 | | X | | | | | | | |
| **Test Counts** | | | | | | 10 | 23 | 10 | 8 | 52 | 54 | 44 | 52 | 1 |

## Internal Quality Control Review and Glossary

### General

1. 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.
3. 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.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue 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/100mL:** Organisms per 100 millilitres | **NTU:** Nephelometric Turbidity Units | **MPN/100mL:** Most Probable Number of organisms per 100 millilitres |

### Terms

| | |
|---|---|
| **Dry** | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| **LOR** | Limit of Reporting. |
| **SPIKE** | Addition of the analyte to the sample and reported as percentage recovery. |
| **RPD** | Relative Percent Difference between two Duplicate pieces of analysis. |
| **LCS** | Laboratory Control Sample - reported as percent recovery. |
| **CRM** | Certified Reference Material - 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. |
| **Surr - Surrogate** | The addition of a like compound to the analyte target and reported as percentage recovery. |
| **Duplicate** | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| **USEPA** | United States Environmental Protection Agency |
| **APHA** | American Public Health Association |
| **TCLP** | Toxicity Characteristic Leaching Procedure |
| **COC** | Chain of Custody |
| **SRA** | Sample Receipt Advice |
| **QSM** | US Department of Defense Quality Systems Manual Version 5.4 |
| **CP** | Client Parent - QC was performed on samples pertaining to this report |
| **NCP** | 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. |
| **TEQ** | Toxic Equivalency Quotient |
| **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

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

1. 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.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

**Quality Control Results**

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|
| **Method Blank** | | | | | | | |
| **Organochlorine Pesticides** | | | | | | | |
| Chlordanes - Total | mg/L | < 0.002 | | | 0.002 | Pass | |
| 4.4'-DDD | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| 4.4'-DDE | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| 4.4'-DDT | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| a-HCH | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Aldrin | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| b-HCH | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| d-HCH | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Dieldrin | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Endosulfan I | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Endosulfan II | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Endosulfan sulphate | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Endrin | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Endrin aldehyde | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Endrin ketone | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| g-HCH (Lindane) | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Heptachlor | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Heptachlor epoxide | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Hexachlorobenzene | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Methoxychlor | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Toxaphene | mg/L | < 0.005 | | | 0.005 | Pass | |
| **Method Blank** | | | | | | | |
| **Heavy Metals** | | | | | | | |
| Arsenic | mg/L | < 0.001 | | | 0.001 | Pass | |
| Cadmium | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Chromium | mg/L | < 0.001 | | | 0.001 | Pass | |
| Copper | mg/L | < 0.001 | | | 0.001 | Pass | |
| Lead | mg/L | < 0.001 | | | 0.001 | Pass | |
| Mercury | mg/L | < 0.0001 | | | 0.0001 | Pass | |
| Nickel | mg/L | < 0.001 | | | 0.001 | Pass | |
| Zinc | mg/L | < 0.005 | | | 0.005 | Pass | |
| **Method Blank** | | | | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | | |
| Acenaphthene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Acenaphthylene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Anthracene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Benz(a)anthracene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Benzo(a)pyrene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Benzo(b&j)fluoranthene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Benzo(g.h.i)perylene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Benzo(k)fluoranthene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Chrysene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Dibenz(a.h)anthracene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Fluoranthene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Fluorene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Indeno(1.2.3-cd)pyrene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Naphthalene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Phenanthrene | mg/L | < 0.001 | | | 0.001 | Pass | |
| Pyrene | mg/L | < 0.001 | | | 0.001 | Pass | |
| **LCS - % Recovery** | | | | | | | |

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|
| **Organochlorine Pesticides** | | | | | | | |
| Chlordanes - Total | % | 109 | | | 70-130 | Pass | |
| 4.4'-DDD | % | 73 | | | 70-130 | Pass | |
| 4.4'-DDE | % | 101 | | | 70-130 | Pass | |
| 4.4'-DDT | % | 83 | | | 70-130 | Pass | |
| a-HCH | % | 91 | | | 70-130 | Pass | |
| Aldrin | % | 92 | | | 70-130 | Pass | |
| b-HCH | % | 120 | | | 70-130 | Pass | |
| d-HCH | % | 98 | | | 70-130 | Pass | |
| Dieldrin | % | 113 | | | 70-130 | Pass | |
| Endosulfan I | % | 95 | | | 70-130 | Pass | |
| Endosulfan II | % | 112 | | | 70-130 | Pass | |
| Endosulfan sulphate | % | 93 | | | 70-130 | Pass | |
| Endrin | % | 95 | | | 70-130 | Pass | |
| Endrin aldehyde | % | 83 | | | 70-130 | Pass | |
| Endrin ketone | % | 108 | | | 70-130 | Pass | |
| g-HCH (Lindane) | % | 125 | | | 70-130 | Pass | |
| Heptachlor epoxide | % | 97 | | | 70-130 | Pass | |
| Hexachlorobenzene | % | 109 | | | 70-130 | Pass | |
| Methoxychlor | % | 76 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Heavy Metals** | | | | | | | |
| Arsenic | % | 97 | | | 80-120 | Pass | |
| Cadmium | % | 103 | | | 80-120 | Pass | |
| Chromium | % | 103 | | | 80-120 | Pass | |
| Copper | % | 107 | | | 80-120 | Pass | |
| Lead | % | 105 | | | 80-120 | Pass | |
| Mercury | % | 114 | | | 80-120 | Pass | |
| Nickel | % | 108 | | | 80-120 | Pass | |
| Zinc | % | 100 | | | 80-120 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | | | | |
| Acenaphthene | % | 100 | | | 70-130 | Pass | |
| Acenaphthylene | % | 77 | | | 70-130 | Pass | |
| Anthracene | % | 84 | | | 70-130 | Pass | |
| Benz(a)anthracene | % | 92 | | | 70-130 | Pass | |
| Benzo(a)pyrene | % | 76 | | | 70-130 | Pass | |
| Benzo(b&j)fluoranthene | % | 107 | | | 70-130 | Pass | |
| Benzo(g.h.i)perylene | % | 115 | | | 70-130 | Pass | |
| Benzo(k)fluoranthene | % | 99 | | | 70-130 | Pass | |
| Chrysene | % | 73 | | | 70-130 | Pass | |
| Dibenz(a.h)anthracene | % | 79 | | | 70-130 | Pass | |
| Fluoranthene | % | 92 | | | 70-130 | Pass | |
| Fluorene | % | 76 | | | 70-130 | Pass | |
| Indeno(1.2.3-cd)pyrene | % | 85 | | | 70-130 | Pass | |
| Naphthalene | % | 86 | | | 70-130 | Pass | |
| Phenanthrene | % | 73 | | | 70-130 | Pass | |
| Pyrene | % | 101 | | | 70-130 | Pass | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|---|---|
| **Spike - % Recovery** | | | | | | | | | |
| **Organochlorine Pesticides** | | | | Result 1 | | | | | |
| Chlordanes - Total | B21-Se14119 | NCP | % | 91 | | | 70-130 | Pass | |
| 4.4'-DDD | B21-Se14119 | NCP | % | 81 | | | 70-130 | Pass | |
| 4.4'-DDE | B21-Se14119 | NCP | % | 103 | | | 70-130 | Pass | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|---|---|
| 4.4'-DDT | B21-Se14119 | NCP | % | 83 | | | 70-130 | Pass | |
| a-HCH | B21-Se14119 | NCP | % | 96 | | | 70-130 | Pass | |
| Aldrin | B21-Se14119 | NCP | % | 94 | | | 70-130 | Pass | |
| b-HCH | B21-Se14119 | NCP | % | 94 | | | 70-130 | Pass | |
| d-HCH | B21-Se14119 | NCP | % | 94 | | | 70-130 | Pass | |
| Dieldrin | B21-Se14119 | NCP | % | 98 | | | 70-130 | Pass | |
| Endosulfan I | B21-Se14119 | NCP | % | 108 | | | 70-130 | Pass | |
| Endosulfan II | B21-Se14119 | NCP | % | 114 | | | 70-130 | Pass | |
| Endosulfan sulphate | B21-Se14119 | NCP | % | 108 | | | 70-130 | Pass | |
| Endrin | B21-Se14119 | NCP | % | 88 | | | 70-130 | Pass | |
| Endrin ketone | B21-Se14119 | NCP | % | 128 | | | 70-130 | Pass | |
| g-HCH (Lindane) | B21-Se14119 | NCP | % | 127 | | | 70-130 | Pass | |
| Heptachlor | B21-Se14119 | NCP | % | 105 | | | 70-130 | Pass | |
| Heptachlor epoxide | B21-Se14119 | NCP | % | 114 | | | 70-130 | Pass | |
| Methoxychlor | B21-Se14119 | NCP | % | 88 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | | | | | |
| Arsenic | M21-Se13778 | NCP | % | 91 | | | 75-125 | Pass | |
| Cadmium | M21-Se13778 | NCP | % | 94 | | | 75-125 | Pass | |
| Chromium | M21-Se13778 | NCP | % | 95 | | | 75-125 | Pass | |
| Copper | M21-Se13778 | NCP | % | 95 | | | 75-125 | Pass | |
| Lead | M21-Se13778 | NCP | % | 94 | | | 75-125 | Pass | |
| Mercury | M21-Se13778 | NCP | % | 108 | | | 75-125 | Pass | |
| Nickel | M21-Se13778 | NCP | % | 98 | | | 75-125 | Pass | |
| Zinc | M21-Se13778 | NCP | % | 113 | | | 75-125 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Polycyclic Aromatic Hydrocarbons** | | | | Result 1 | | | | | |
| Acenaphthene | B21-Se25588 | NCP | % | 100 | | | 70-130 | Pass | |
| Acenaphthylene | B21-Se25588 | NCP | % | 87 | | | 70-130 | Pass | |
| Anthracene | M21-Se19086 | NCP | % | 88 | | | 70-130 | Pass | |
| Benz(a)anthracene | B21-Se25588 | NCP | % | 84 | | | 70-130 | Pass | |
| Benzo(a)pyrene | M21-Se19086 | NCP | % | 72 | | | 70-130 | Pass | |
| Benzo(b&j)fluoranthene | B21-Se25588 | NCP | % | 84 | | | 70-130 | Pass | |
| Benzo(g.h.i)perylene | B21-Se25588 | NCP | % | 83 | | | 70-130 | Pass | |
| Benzo(k)fluoranthene | B21-Se25588 | NCP | % | 94 | | | 70-130 | Pass | |
| Chrysene | B21-Se25588 | NCP | % | 93 | | | 70-130 | Pass | |
| Dibenz(a.h)anthracene | B21-Se25588 | NCP | % | 81 | | | 70-130 | Pass | |
| Fluoranthene | B21-Se25588 | NCP | % | 94 | | | 70-130 | Pass | |
| Fluorene | B21-Se25588 | NCP | % | 93 | | | 70-130 | Pass | |
| Indeno(1.2.3-cd)pyrene | B21-Se25588 | NCP | % | 105 | | | 70-130 | Pass | |
| Naphthalene | B21-Se25588 | NCP | % | 95 | | | 70-130 | Pass | |
| Phenanthrene | B21-Se25588 | NCP | % | 99 | | | 70-130 | Pass | |
| Pyrene | B21-Se25588 | NCP | % | 79 | | | 70-130 | Pass | |
| **Test** | **Lab Sample ID** | **QA Source** | **Units** | **Result 1** | | | **Acceptance Limits** | **Pass Limits** | **Qualifying Code** |
| **Duplicate** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic | M21-Se13778 | NCP | mg/L | 0.005 | 0.005 | 5.0 | 30% | Pass | |
| Cadmium | M21-Se13778 | NCP | mg/L | < 0.0002 | < 0.0002 | <1 | 30% | Pass | |
| Chromium | M21-Se13778 | NCP | mg/L | 0.002 | 0.002 | 4.0 | 30% | Pass | |
| Copper | M21-Se13778 | NCP | mg/L | 0.010 | 0.009 | 1.0 | 30% | Pass | |
| Lead | M21-Se13778 | NCP | mg/L | 0.002 | 0.002 | 1.0 | 30% | Pass | |
| Mercury | M21-Se13778 | NCP | mg/L | < 0.0001 | < 0.0001 | <1 | 30% | Pass | |
| Nickel | M21-Se13778 | NCP | mg/L | 0.004 | 0.004 | 5.0 | 30% | Pass | |

## Comments

### Sample Integrity

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

### Qualifier Codes/Comments

| Code | Description |
|---|---|
| N07 | Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs |

### Authorised by:

| | |
|---|---|
| James McCann | Analytical Services Manager |
| Joseph Edouard | Senior Analyst-Organic (VIC) |
| Emily Rosenberg | Senior Analyst-Metal (VIC) |

**Glenn Jackson**
**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 or please click here.

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| | |
|---|---|
| Project ID: | 754-BNEEN282781 DVA Greenslopes |
| Site: | 114 Newdegate Street Greenslopes |

| | | | | |
|---|---|---|---|---|
| Contact: | Jeremy Wicks | Quote No: | Coffey | Comments: |
| Office: | 12 Creek Street Brisbane QLD 4000 | Results Required: | 15/10/2021 | |
| Email: | jeremy.wicks@coffey.com | Report Format: | Email | |
| Phone: | 0435 956 733 | Turn Around | Standard turnaround | |

| SAMPLE INFORMATION | | | | | CONTAINER | | ANALYTICAL REQUIREMENTS | | | | | | | | | | | | | | | | | | | | Filter |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LAB ID | Sample ID | Matrix Type S: Soil W: Water | Date | Time | Type / Code | Total Bottles | | TCLP Plus OCP | TCLP Plus Lead, Zinc | TCLP PLUS OCP/Lead/Zinc | TCLP PLUS Chromium | TCLP PLUS OCP/Lead/Zinc/Chromium | | | | | | | | | | | | | | | |
| | BH06_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | x | | | | | | | | | | | | | | | 29 | 1 |
| | BH07_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | x | | | | | | | | | | | | | | | 31 | 1 |
| | BH08_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | x | | | | | | | | | | | | | | | 34 | 1 |
| | BH13_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | x | | | | | | | | | | | | | | | | | 37 | 1 |
| | BH14_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | x | | | | | | | | | | | | | | | | 38 | 1 |
| | BH14_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | x | | | | | | | | | | | | | | | | | | 39 | 1 |
| | BH15_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | x | | | | | | | | | | | | | | | | | 41 | 1 |
| | BH16_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | x | | | | | | | | | | | | | | | | | 44 | 1 |
| | BH16_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | x | | | | | | | | | | | | | | | 46 | 1 |
| | BH19_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | x | | | | | | | | | | | | | | | | | 54 | 1 |
| | BH21_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | x | | | | | | | | | | | | | | | | | | 59 | 1 |
| | BH21_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | | x | | | | | | | | | | | | | | 60 | 1 |
| | BH21_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | x | | | | | | | | | | | | | | | 61 | 1 |
| | BH21_Concrete | Concrete | 03-Sep-21 | | Bag | 1 | | x | | | | | | | | | | | | | | | | | | 75 | 1 |

se11795 - GT12 - FD301
se11797 -
se11799 -
se11801 - GT676 - FD301
se11802
se11803
se11805
se11808
se11818 - GT96 - FD203
se11823 - GT185 - FD401
se11824 -
se11837 - GT488 - FE103

831137
Jake

# Fw: Eurofins Test Results, Invoice - 822538 : Site 754-BNEEN282781 DVA GREENSLOPES - TCLP Analytical Request

#AU03_EnviroSampleBris <EnviroSampleBris@eurofins.com>
Mon 11/10/2021 1:33 PM
To: #AU_CAU001_EnviroSampleVic <EnviroSampleVic@eurofins.com>
Cc: Alana Wadsworth <AlanaWadsworth@eurofins.com>

Hi team,

The client has now sent an update for the additional request on a 5 day TAT - please use this COC instead.

Warm Regards,
Sarah Koutsiofis

**Eurofins Brisbane**
Eurofins
1/21 Smallwood Place
MURARRIE QLD 4172
AUSTRALIA
Phone : +61 7 3902 4611

Email : EnviroSampleBris@Eurofins.com
Website : www.eurofins.com.au/environmental-testing

---

**From:** Wicks, Jeremy <Jeremy.Wicks@coffey.com>
**Sent:** Monday, October 11, 2021 12:26 PM
**To:** Alana Wadsworth <AlanaWadsworth@eurofins.com>
**Cc:** #AU03_EnviroSampleBris <EnviroSampleBris@eurofins.com>
**Subject:** RE: Eurofins Test Results, Invoice - 822538 : Site 754-BNEEN282781 DVA GREENSLOPES - TCLP Analytical Request

EXTERNAL EMAIL*

Hi Alana

I have added some additional TCLP tests to the attached. Can you please disregard the schedule in my previous email today and use the attached.

Best regards

**Jeremy Wicks** | Environments Team Leader - Queensland
Direct **+61 7 3239 9357** | Business **+61 7 3239 9300** | Mobile **+61 435 956 733** | jeremy.wicks@tetratech.com

**Tetra Tech Coffey** | *Leading with Science®*
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IANZ # 1327

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43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

# Sample Receipt Advice

| | |
|---|---|
| **Company name:** | Coffey Environments Pty Ltd QLD |
| **Contact name:** | Jeremy Wicks |
| **Project name:** | 754-BNEEN282781 DVA GREENSLOPES |
| **Project ID:** | Not provided |
| **Turnaround time:** | 5 Day |
| **Date/Time received** | Oct 11, 2021 12:26 PM |
| **Eurofins reference** | 831137 |

## Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✓ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

## Notes

## Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

**James McCann on phone : or by email: JamesMcCann@eurofins.com**

Results will be delivered electronically via email to Jeremy Wicks - Jeremy.Wicks@coffey.com.

*Note: A copy of these results will also be delivered to the general Coffey Environments Pty Ltd QLD email address.*

eurofins | Environment Testing

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

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NATA # 1261 Site # 18217

**Brisbane**
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

**Newcastle**
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

**Eurofins ARL Pty Ltd**
ABN: 91 05 0159 898

**Perth**
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

**Eurofins Environment Testing NZ Limited**
NZBN: 9429046024954

**Auckland**
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Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

**Christchurch**
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

**Company Name:** Coffey Environments Pty Ltd QLD
**Address:** Level 5, 12 Creek Street
Brisbane
QLD 4000

**Order No.:**
**Report #:** 831137
**Phone:** 07 3503 7192
**Fax:**

**Received:** Oct 11, 2021 12:26 PM
**Due:** Oct 18, 2021
**Priority:** 5 Day
**Contact Name:** Jeremy Wicks

**Project Name:** 754-BNEEN282781 DVA GREENSLOPES

**Eurofins Analytical Services Manager : James McCann**

| Sample Detail | | | | | | Chromium | Lead | Zinc | Organochlorine Pesticides | USA Leaching Procedure |
|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | | | | | |
| 1 | BH06_0.5 | Sep 03, 2021 | | US Leachate | M21-Oc20732 | X | | | | X |
| 2 | BH07_0.3 | Sep 03, 2021 | | US Leachate | M21-Oc20733 | X | | | | X |
| 3 | BH08_0.3 | Sep 03, 2021 | | US Leachate | M21-Oc20734 | X | | | | X |
| 4 | BH13_0.1 | Sep 03, 2021 | | US Leachate | M21-Oc20735 | | X | X | | X |
| 5 | BH14_0.1 | Sep 03, 2021 | | US Leachate | M21-Oc20736 | | X | X | X | X |
| 6 | BH14_0.3 | Sep 03, 2021 | | US Leachate | M21-Oc20737 | | | | X | X |
| 7 | BH15_0.1 | Sep 03, 2021 | | US Leachate | M21-Oc20738 | | X | X | | X |
| 8 | BH16_0.1 | Sep 03, 2021 | | US Leachate | M21-Oc20739 | | X | X | | X |
| 9 | BH16_0.5 | Sep 03, 2021 | | US Leachate | M21-Oc20740 | X | | | | X |
| 10 | BH19_0.3 | Sep 03, 2021 | | US Leachate | M21-Oc20741 | | X | X | | X |

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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

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QLD 4000

**Order No.:**
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**Priority:** 5 Day
**Contact Name:** Jeremy Wicks

**Project Name:** 754-BNEEN282781 DVA GREENSLOPES

**Eurofins Analytical Services Manager : James McCann**

| Sample Detail | | | | | | Chromium | Lead | Zinc | Organochlorine Pesticides | USA Leaching Procedure |
|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | |
| 11 | BH21_0.1 | Sep 03, 2021 | | US Leachate | M21-Oc20742 | | | | X | X |
| 12 | BH21_0.3 | Sep 03, 2021 | | US Leachate | M21-Oc20743 | X | X | X | X | X |
| 13 | BH21_0.5 | Sep 03, 2021 | | US Leachate | M21-Oc20744 | X | | | | X |
| 14 | BH21_CONCRETE | Sep 03, 2021 | | US Leachate | M21-Oc20745 | | | | X | X |
| **Test Counts** | | | | | | 6 | 6 | 6 | 5 | 14 |

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# Certificate of Analysis

**Coffey Environments Pty Ltd QLD**
**Level 5, 12 Creek Street**
**Brisbane**
**QLD 4000**

**NATA Accredited**
**Accreditation Number 1261**
**Site Number 1254**

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:** **Jeremy Wicks**

**Report** **831137-L**
Project name 754-BNEEN282781 DVA GREENSLOPES
Received Date Oct 11, 2021

| **Client Sample ID** | | | **BH06_0.5** | **BH07_0.3** | **BH08_0.3** | **BH13_0.1** |
|---|---|---|---|---|---|---|
| **Sample Matrix** | | | **US Leachate** | **US Leachate** | **US Leachate** | **US Leachate** |
| **Eurofins Sample No.** | | | **M21-Oc20732** | **M21-Oc20733** | **M21-Oc20734** | **M21-Oc20735** |
| **Date Sampled** | | | **Sep 03, 2021** | **Sep 03, 2021** | **Sep 03, 2021** | **Sep 03, 2021** |
| Test/Reference | LOR | Unit | | | | |
| **Heavy Metals** | | | | | | |
| Chromium | 0.01 | mg/L | < 0.01 | < 0.01 | < 0.01 | - |
| Lead | 0.01 | mg/L | - | - | - | 0.11 |
| Zinc | 0.01 | mg/L | - | - | - | 0.90 |
| **USA Leaching Procedure** | | | | | | |
| Leachate Fluid[C01] | | comment | 1.0 | 1.0 | 1.0 | 1.0 |
| pH (initial) | 0.1 | pH Units | 5.6 | 5.7 | 5.5 | 5.4 |
| pH (Leachate fluid) | 0.1 | pH Units | 5.1 | 5.1 | 5.1 | 5.1 |
| pH (off) | 0.1 | pH Units | 5.2 | 5.1 | 5.1 | 5.1 |
| pH (USA HCl addition) | 0.1 | pH Units | 1.3 | 1.3 | 1.3 | 1.3 |

| **Client Sample ID** | | | **BH14_0.1** | **BH14_0.3** | **BH15_0.1** | **BH16_0.1** |
|---|---|---|---|---|---|---|
| **Sample Matrix** | | | **US Leachate** | **US Leachate** | **US Leachate** | **US Leachate** |
| **Eurofins Sample No.** | | | **M21-Oc20736** | **M21-Oc20737** | **M21-Oc20738** | **M21-Oc20739** |
| **Date Sampled** | | | **Sep 03, 2021** | **Sep 03, 2021** | **Sep 03, 2021** | **Sep 03, 2021** |
| Test/Reference | LOR | Unit | | | | |
| **Heavy Metals** | | | | | | |
| Lead | 0.01 | mg/L | 0.10 | - | 0.07 | 0.12 |
| Zinc | 0.01 | mg/L | 1.1 | - | 0.66 | 0.84 |
| **USA Leaching Procedure** | | | | | | |
| Leachate Fluid[C01] | | comment | 1.0 | 1.0 | 1.0 | 1.0 |
| pH (initial) | 0.1 | pH Units | 5.3 | 5.5 | 5.2 | 5.2 |
| pH (Leachate fluid) | 0.1 | pH Units | 5.1 | 5.1 | 5.1 | 5.1 |
| pH (off) | 0.1 | pH Units | 5.2 | 5.1 | 5.2 | 5.2 |
| pH (USA HCl addition) | 0.1 | pH Units | 1.3 | 1.3 | 1.2 | 1.2 |
| **Organochlorine Pesticides** | | | | | | |
| Chlordanes - Total | 0.005 | mg/L | < 0.005 | < 0.005 | - | - |
| 4.4'-DDD | 0.001 | mg/L | < 0.001 | < 0.001 | - | - |
| 4.4'-DDE | 0.001 | mg/L | < 0.001 | < 0.001 | - | - |
| 4.4'-DDT | 0.001 | mg/L | < 0.001 | < 0.001 | - | - |
| a-HCH | 0.001 | mg/L | < 0.001 | < 0.001 | - | - |
| Aldrin | 0.001 | mg/L | < 0.001 | < 0.001 | - | - |
| b-HCH | 0.001 | mg/L | < 0.001 | < 0.001 | - | - |
| d-HCH | 0.001 | mg/L | < 0.001 | < 0.001 | - | - |
| Dieldrin | 0.001 | mg/L | 0.001 | < 0.001 | - | - |
| Endosulfan I | 0.001 | mg/L | < 0.001 | < 0.001 | - | - |

| Client Sample ID | | | BH14_0.1 | BH14_0.3 | BH15_0.1 | BH16_0.1 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | US Leachate | US Leachate | US Leachate | US Leachate |
| Eurofins Sample No. | | | M21-Oc20736 | M21-Oc20737 | M21-Oc20738 | M21-Oc20739 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **Organochlorine Pesticides** | | | | | | |
| Endosulfan II | 0.001 | mg/L | < 0.001 | < 0.001 | - | - |
| Endosulfan sulphate | 0.001 | mg/L | < 0.001 | < 0.001 | - | - |
| Endrin | 0.001 | mg/L | < 0.001 | < 0.001 | - | - |
| Endrin aldehyde | 0.001 | mg/L | < 0.001 | < 0.001 | - | - |
| Endrin ketone | 0.001 | mg/L | < 0.001 | < 0.001 | - | - |
| g-HCH (Lindane) | 0.001 | mg/L | < 0.001 | < 0.001 | - | - |
| Heptachlor | 0.001 | mg/L | < 0.001 | < 0.001 | - | - |
| Heptachlor epoxide | 0.001 | mg/L | < 0.001 | < 0.001 | - | - |
| Hexachlorobenzene | 0.001 | mg/L | < 0.001 | < 0.001 | - | - |
| Methoxychlor | 0.001 | mg/L | < 0.001 | < 0.001 | - | - |
| Toxaphene | 0.005 | mg/L | < 0.005 | < 0.005 | - | - |
| Aldrin and Dieldrin (Total)* | 0.0002 | mg/L | 0.001 | < 0.001 | - | - |
| DDT + DDE + DDD (Total)* | 0.0002 | mg/L | < 0.001 | < 0.001 | - | - |
| Vic EPA IWRG 621 OCP (Total)* | 0.002 | mg/L | < 0.005 | < 0.005 | - | - |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.002 | mg/L | < 0.005 | < 0.005 | - | - |
| Dibutylchlorendate (surr.) | 1 | % | 75 | 76 | - | - |
| Tetrachloro-m-xylene (surr.) | 1 | % | 81 | 90 | - | - |

| Client Sample ID | | | BH16_0.5 | BH19_0.3 | BH21_0.1 | BH21_0.3 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | US Leachate | US Leachate | US Leachate | US Leachate |
| Eurofins Sample No. | | | M21-Oc20740 | M21-Oc20741 | M21-Oc20742 | M21-Oc20743 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **Heavy Metals** | | | | | | |
| Chromium | 0.01 | mg/L | < 0.01 | - | - | < 0.01 |
| Lead | 0.01 | mg/L | - | 0.03 | - | < 0.01 |
| Zinc | 0.01 | mg/L | - | 0.25 | - | 0.06 |
| **USA Leaching Procedure** | | | | | | |
| Leachate Fluid[C01] | | comment | 1.0 | 1.0 | 1.0 | 1.0 |
| pH (initial) | 0.1 | pH Units | 5.2 | 5.4 | 5.5 | 5.6 |
| pH (Leachate fluid) | 0.1 | pH Units | 5.1 | 5.1 | 5.1 | 5.1 |
| pH (off) | 0.1 | pH Units | 5.2 | 5.1 | 5.1 | 5.1 |
| pH (USA HCl addition) | 0.1 | pH Units | 1.3 | 1.3 | 1.3 | 1.3 |
| **Organochlorine Pesticides** | | | | | | |
| Chlordanes - Total | 0.005 | mg/L | - | - | < 0.005 | < 0.005 |
| 4.4'-DDD | 0.001 | mg/L | - | - | < 0.001 | < 0.001 |
| 4.4'-DDE | 0.001 | mg/L | - | - | < 0.001 | < 0.001 |
| 4.4'-DDT | 0.001 | mg/L | - | - | < 0.001 | < 0.001 |
| a-HCH | 0.001 | mg/L | - | - | < 0.001 | < 0.001 |
| Aldrin | 0.001 | mg/L | - | - | 0.002 | < 0.001 |
| b-HCH | 0.001 | mg/L | - | - | < 0.001 | < 0.001 |
| d-HCH | 0.001 | mg/L | - | - | < 0.001 | < 0.001 |
| Dieldrin | 0.001 | mg/L | - | - | 0.004 | < 0.001 |
| Endosulfan I | 0.001 | mg/L | - | - | < 0.001 | < 0.001 |
| Endosulfan II | 0.001 | mg/L | - | - | < 0.001 | < 0.001 |
| Endosulfan sulphate | 0.001 | mg/L | - | - | < 0.001 | < 0.001 |
| Endrin | 0.001 | mg/L | - | - | < 0.001 | < 0.001 |
| Endrin aldehyde | 0.001 | mg/L | - | - | < 0.001 | < 0.001 |

| Client Sample ID | | | BH16_0.5 | BH19_0.3 | BH21_0.1 | BH21_0.3 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | US Leachate | US Leachate | US Leachate | US Leachate |
| Eurofins Sample No. | | | M21-Oc20740 | M21-Oc20741 | M21-Oc20742 | M21-Oc20743 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **Organochlorine Pesticides** | | | | | | |
| Endrin ketone | 0.001 | mg/L | - | - | 0.001 | < 0.001 |
| g-HCH (Lindane) | 0.001 | mg/L | - | - | < 0.001 | < 0.001 |
| Heptachlor | 0.001 | mg/L | - | - | < 0.001 | < 0.001 |
| Heptachlor epoxide | 0.001 | mg/L | - | - | < 0.001 | < 0.001 |
| Hexachlorobenzene | 0.001 | mg/L | - | - | < 0.001 | < 0.001 |
| Methoxychlor | 0.001 | mg/L | - | - | < 0.001 | < 0.001 |
| Toxaphene | 0.005 | mg/L | - | - | < 0.005 | < 0.005 |
| Aldrin and Dieldrin (Total)* | 0.0002 | mg/L | - | - | 0.006 | < 0.001 |
| DDT + DDE + DDD (Total)* | 0.0002 | mg/L | - | - | < 0.001 | < 0.001 |
| Vic EPA IWRG 621 OCP (Total)* | 0.002 | mg/L | - | - | 0.006 | < 0.005 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.002 | mg/L | - | - | < 0.005 | < 0.005 |
| Dibutylchlorendate (surr.) | 1 | % | - | - | 76 | 56 |
| Tetrachloro-m-xylene (surr.) | 1 | % | - | - | 81 | 65 |

| Client Sample ID | | | BH21_0.5 | BH21_CONCRETE |
|---|---|---|---|---|
| Sample Matrix | | | US Leachate | US Leachate |
| Eurofins Sample No. | | | M21-Oc20744 | M21-Oc20745 |
| Date Sampled | | | Sep 03, 2021 | Sep 03, 2021 |
| Test/Reference | LOR | Unit | | |
| **Heavy Metals** | | | | |
| Chromium | 0.01 | mg/L | < 0.01 | - |
| **USA Leaching Procedure** | | | | |
| Leachate Fluid[C01] | | comment | 1.0 | 1.0 |
| pH (initial) | 0.1 | pH Units | 5.6 | 9.1 |
| pH (Leachate fluid) | 0.1 | pH Units | 5.1 | 5.1 |
| pH (off) | 0.1 | pH Units | 5.2 | 10 |
| pH (USA HCl addition) | 0.1 | pH Units | 1.4 | 1.8 |
| **Organochlorine Pesticides** | | | | |
| Chlordanes - Total | 0.005 | mg/L | - | < 0.005 |
| 4.4'-DDD | 0.001 | mg/L | - | < 0.001 |
| 4.4'-DDE | 0.001 | mg/L | - | < 0.001 |
| 4.4'-DDT | 0.001 | mg/L | - | < 0.001 |
| a-HCH | 0.001 | mg/L | - | < 0.001 |
| Aldrin | 0.001 | mg/L | - | < 0.001 |
| b-HCH | 0.001 | mg/L | - | < 0.001 |
| d-HCH | 0.001 | mg/L | - | < 0.001 |
| Dieldrin | 0.001 | mg/L | - | < 0.001 |
| Endosulfan I | 0.001 | mg/L | - | < 0.001 |
| Endosulfan II | 0.001 | mg/L | - | < 0.001 |
| Endosulfan sulphate | 0.001 | mg/L | - | < 0.001 |
| Endrin | 0.001 | mg/L | - | < 0.001 |
| Endrin aldehyde | 0.001 | mg/L | - | < 0.001 |
| Endrin ketone | 0.001 | mg/L | - | < 0.001 |
| g-HCH (Lindane) | 0.001 | mg/L | - | < 0.001 |
| Heptachlor | 0.001 | mg/L | - | < 0.001 |
| Heptachlor epoxide | 0.001 | mg/L | - | < 0.001 |
| Hexachlorobenzene | 0.001 | mg/L | - | < 0.001 |

| Client Sample ID | | | BH21_0.5 | BH21_CONCRETE |
|---|---|---|---|---|
| **Sample Matrix** | | | **US Leachate** | **US Leachate** |
| **Eurofins Sample No.** | | | **M21-Oc20744** | **M21-Oc20745** |
| **Date Sampled** | | | **Sep 03, 2021** | **Sep 03, 2021** |
| Test/Reference | LOR | Unit | | |
| **Organochlorine Pesticides** | | | | |
| Methoxychlor | 0.001 | mg/L | - | < 0.001 |
| Toxaphene | 0.005 | mg/L | - | < 0.005 |
| Aldrin and Dieldrin (Total)* | 0.0002 | mg/L | - | < 0.001 |
| DDT + DDE + DDD (Total)* | 0.0002 | mg/L | - | < 0.001 |
| Vic EPA IWRG 621 OCP (Total)* | 0.002 | mg/L | - | < 0.005 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.002 | mg/L | - | < 0.005 |
| Dibutylchlorendate (surr.) | 1 | % | - | 76 |
| Tetrachloro-m-xylene (surr.) | 1 | % | - | 83 |

## Sample History

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

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

| Description | Testing Site | Extracted | Holding Time |
|---|---|---|---|
| Heavy Metals | Melbourne | Oct 11, 2021 | 28 Days |
| - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | | | |
| Organochlorine Pesticides | Melbourne | Oct 12, 2021 | 7 Days |
| - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270) | | | |

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ABN: 50 005 085 521

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NATA # 1261 Site # 18217

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NATA # 1261 Site # 20794

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**Eurofins Analytical Services Manager : James McCann**

| Sample Detail | | | | | | Chromium | Lead | Zinc | Organochlorine Pesticides | USA Leaching Procedure |
|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | | | | | |
| 1 | BH06_0.5 | Sep 03, 2021 | | US Leachate | M21-Oc20732 | X | | | | X |
| 2 | BH07_0.3 | Sep 03, 2021 | | US Leachate | M21-Oc20733 | X | | | | X |
| 3 | BH08_0.3 | Sep 03, 2021 | | US Leachate | M21-Oc20734 | X | | | | X |
| 4 | BH13_0.1 | Sep 03, 2021 | | US Leachate | M21-Oc20735 | | X | X | | X |
| 5 | BH14_0.1 | Sep 03, 2021 | | US Leachate | M21-Oc20736 | | X | X | X | X |
| 6 | BH14_0.3 | Sep 03, 2021 | | US Leachate | M21-Oc20737 | | | | X | X |
| 7 | BH15_0.1 | Sep 03, 2021 | | US Leachate | M21-Oc20738 | | X | X | | X |
| 8 | BH16_0.1 | Sep 03, 2021 | | US Leachate | M21-Oc20739 | | X | X | | X |
| 9 | BH16_0.5 | Sep 03, 2021 | | US Leachate | M21-Oc20740 | X | | | | X |
| 10 | BH19_0.3 | Sep 03, 2021 | | US Leachate | M21-Oc20741 | | X | X | | X |

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email: EnviroSales@eurofins.com

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**Brisbane**
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**Christchurch**
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

**Company Name:** Coffey Environments Pty Ltd QLD
**Address:** Level 5, 12 Creek Street
Brisbane
QLD 4000

**Order No.:**
**Report #:** 831137
**Phone:** 07 3503 7192
**Fax:**

**Received:** Oct 11, 2021 12:26 PM
**Due:** Oct 18, 2021
**Priority:** 5 Day
**Contact Name:** Jeremy Wicks

**Project Name:** 754-BNEEN282781 DVA GREENSLOPES

**Eurofins Analytical Services Manager : James McCann**

| Sample Detail | | | | | | Chromium | Lead | Zinc | Organochlorine Pesticides | USA Leaching Procedure |
|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | X | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | | | |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | |
| 11 | BH21_0.1 | Sep 03, 2021 | | US Leachate | M21-Oc20742 | | | | X | X |
| 12 | BH21_0.3 | Sep 03, 2021 | | US Leachate | M21-Oc20743 | X | X | X | X | X |
| 13 | BH21_0.5 | Sep 03, 2021 | | US Leachate | M21-Oc20744 | X | | | | X |
| 14 | BH21_CONCRETE | Sep 03, 2021 | | US Leachate | M21-Oc20745 | | | | X | X |
| **Test Counts** | | | | | | 6 | 6 | 6 | 5 | 14 |

## Internal Quality Control Review and Glossary

### General

1. 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.
3. 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.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue 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
**ug/L:** micrograms per litre
**ppm:** Parts per million
**ppb:** Parts per billion
**%:** Percentage
**org/100mL:** Organisms per 100 millilitres
**NTU:** Nephelometric Turbidity Units
**MPN/100mL:** Most Probable Number of organisms per 100 millilitres

### Terms

| | |
|---|---|
| **Dry** | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| **LOR** | Limit of Reporting. |
| **SPIKE** | Addition of the analyte to the sample and reported as percentage recovery. |
| **RPD** | Relative Percent Difference between two Duplicate pieces of analysis. |
| **LCS** | Laboratory Control Sample - reported as percent recovery. |
| **CRM** | Certified Reference Material - 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. |
| **Surr - Surrogate** | The addition of a like compound to the analyte target and reported as percentage recovery. |
| **Duplicate** | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| **USEPA** | United States Environmental Protection Agency |
| **APHA** | American Public Health Association |
| **TCLP** | Toxicity Characteristic Leaching Procedure |
| **COC** | Chain of Custody |
| **SRA** | Sample Receipt Advice |
| **QSM** | US Department of Defense Quality Systems Manual Version |
| **CP** | Client Parent - QC was performed on samples pertaining to this report |
| **NCP** | 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. |
| **TEQ** | Toxic Equivalency Quotient |
| **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% Phenols & 50-150% PFASs..

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

.

### QC Data General Comments

1. 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.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

**Quality Control Results**

| Test | | | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|---|---|
| **Method Blank** | | | | | | | | | |
| **Heavy Metals** | | | | | | | | | |
| Chromium | | | mg/L | < 0.01 | | | 0.01 | Pass | |
| Lead | | | mg/L | < 0.01 | | | 0.01 | Pass | |
| Zinc | | | mg/L | < 0.01 | | | 0.01 | Pass | |
| **Test** | **Lab Sample ID** | **QA Source** | **Units** | **Result 1** | | | **Acceptance Limits** | **Pass Limits** | **Qualifying Code** |
| **Spike - % Recovery** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | | | | | |
| Chromium | M21-Oc19632 | NCP | % | 100 | | | 75-125 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | | | | | |
| Lead | M21-Oc19632 | NCP | % | 100 | | | 75-125 | Pass | |
| Zinc | M21-Oc19632 | NCP | % | 109 | | | 75-125 | Pass | |
| **Test** | **Lab Sample ID** | **QA Source** | **Units** | **Result 1** | | | **Acceptance Limits** | **Pass Limits** | **Qualifying Code** |
| **Duplicate** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | Result 2 | RPD | | | |
| Chromium | M21-Oc19632 | NCP | mg/L | < 0.01 | < 0.01 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | Result 2 | RPD | | | |
| Lead | M21-Oc19632 | NCP | mg/L | 0.11 | 0.11 | <1 | 30% | Pass | |
| Zinc | M21-Oc19632 | NCP | mg/L | 3.2 | 3.1 | 2.0 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Organochlorine Pesticides** | | | | Result 1 | Result 2 | RPD | | | |
| Hexachlorobenzene | M21-Oc04244 | NCP | mg/L | < 0.001 | < 0.001 | <1 | 30% | Pass | |
| Toxaphene | M21-Oc04244 | NCP | mg/L | < 0.005 | < 0.005 | <1 | 30% | Pass | |

## Comments

### Sample Integrity

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

### Qualifier Codes/Comments

| Code | Description |
|---|---|
| C01 | Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other |

### Authorised by:

| | |
|---|---|
| Alana Wadsworth | Analytical Services Manager |
| Emily Rosenberg | Senior Analyst-Metal (VIC) |
| Joseph Edouard | Senior Analyst-Organic (VIC) |

**Glenn Jackson**
**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 or please click here.

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# CHAIN OF CUSTODY RECORD

ABN 50 005 085 521

☐ Sydney Laboratory — Unit F3 Bld.F, 16 Mars Rd, Lane Cove West, NSW 2066 — 02 9900 8400 EnviroSampleNSW@eurofins.com

☑ Brisbane Laboratory — Unit 1, 21 Smallwood Pl., Murarrie, QLD 4172 — 07 3902 4600 EnviroSampleQLD@eurofins.com

☐ Perth Laboratory — Unit 2, 91 Leach Highway, Kewdale WA 6105 — 08 9251 9600 EnviroSampleWA@eurofins.com

☐ Melbourne Laboratory — 2 Kingston Town Close, Oakleigh, VIC 3166 — 03 8564 5000 EnviroSampleVic@eurofins.com

1/2

| | | | |
|---|---|---|---|
| Company | Coffey Services | Project № | 754-BNEEN 234351 |
| Address | Level 5, Creek Street Brisbane Qld 4000 | Project Name | DVA GREENSLOPES |
| Contact Name | Michael Page | Project Manager | Jeremy Wicks |
| Phone № | 0406 384 431 | Report Format | ESDAT |
| Special Direction | *QC02 TO ALS FOR ANALYSIS PLEASE | Relinquished by | MICHAEL PAGE 12:20 17/11/21 |
| Purchase Order | | Email for Results | JEREMY.WICKS@COFFEY.COM |
| Quote ID № | | | |

Analysis (Note: Where metals are requested, please specify "Total" or "Filtered")

Containers: 1L Plastic | 250mL Plastic | 125mL Plastic | 200mL Amber Glass | 40mLvial | 125mL Amber Glass | Jar | Other ( )

Turn Around Requirements: ☐ Overnight (9am)* ☐ 1 Day* ☐ 2 Day* ☐ 3 Day* ☑ 5 Day ☐ Other ( ) *Surcharges apply

| № | Client Sample ID | Date | Matrix | OCPs | HOLD | 1L Plastic | 250mL Plastic | 125mL Plastic | 200mL Amber Glass | 40mLvial | 125mL Amber Glass | Jar | Other ( ) | Sample Comments / DG Hazard Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW01 – 4.0 | 17/11/21 | S | | X | | | | | | | 1 | | |
| 2 | 4.5 | | | | X | | | | | | | 1 | | |
| 3 | 5.0 | | | | X | | | | | | | 1 | | |
| 4 | 5.5 | | | | X | | | | | | | 1 | | |
| 5 | 6.0 | | | | X | | | | | | | 1 | | |
| 6 | QC01 | | | X | | | | | | | | 1 | | |
| * 7 | QC02 | | S | X | | | | | | | | 1 | | *SEND TO ALS STAFFORD PLEASE VZF |
| 8 | QC03 | | W | X | | | | | | | 1 | | | X1 AC |
| 9 | QC04 | 17/11/21 | W | X | | | | | | | 1 | | | " " |
| 10 | TRIP BLANK | " | S | X | | | | | | 1 | | 3 | | X2 Solid TB |
| | Total Counts | | | | | | | | | | | | | |

Date/Time: Chilled: Temp: 0 -0.5 10.6 Correction: Final Temp: 0.1

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Method of Shipment | ☐ Courier (# ) | ☑ Hand Delivered | ☐ Postal | Name | MICHAEL PAGE | Signature | | Date | 17/11/21 |
| Time | 12:20 | | | | | | | | |
| Laboratory Use Only | Received By | Sarah Koutsiofis | SYD \| BNE \| MEL \| PER \| ADL \| NEW \| DAR | Signature | | Date | 17/11/21 | Time | 12:25PM |
| Temperature | 0.1 | | | | | | | | |
| | Received By | | SYD \| BNE \| MEL \| PER \| ADL \| NEW \| DAR | Signature | | Date | __/__/__ | Time | __:__ |
| Report № | | | | | | | | | |

Submission of samples to the laboratory will be deemed as acceptance of Eurofins | mgt Standard Terms and Conditions unless agreed otherwise. A copy of Eurofins | mgt Standard Terms and Conditions is available on request.



#842197

# CHAIN OF CUSTODY RECORD

ABN 50 005 085 521

☐ Sydney Laboratory
Unit F3 Bld.F, 16 Mars Rd, Lane Cove West, NSW 2066
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☐ Brisbane Laboratory
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07 3902 4600 EnviroSampleQLD@eurofins.com

☐ Perth Laboratory
Unit 2, 91 Leach Highway, Kewdale WA 6105
08 9251 9600 EnviroSampleWA@eurofins.com

☐ Melbourne Laboratory
2 Kingston Town Close, Oakleigh, VIC 3166
03 8564 5000 EnviroSampleVIC@eurofins.com

2/2

| | |
|---|---|
| Company | Coffey Services |
| Address | Level 5, Creek Street<br>Brisbane Qld 4000 |
| Contact Name | Michael Page |
| Phone № | 0406 384 431 |
| Special Direction | |
| Purchase Order | |
| Quote ID № | |

| | |
|---|---|
| Project № | 754-BNEEN234351 |
| Project Name | DVA GREENSLOPES |
| Project Manager | Jeremy Wicks |
| Report Format | ESDAT |
| Relinquished by | ___:___ __/__/__ |
| Email for Results | |

Analysis (Note: Where metals are requested, please specify "Total" or "Filtered")

Containers: 1L Plastic | 250mL Plastic | 125mL Plastic | 200mL Amber Glass | 40mLvial | 125mL Amber Glass | Jar | Other ( )

Turn Around Requirements: ☐ Overnight (9am)* ☐ 1 Day* ☐ 2 Day* ☐ 3 Day* ☐ ~~5 Day~~ ☐ Other ( ) * Surcharges apply

| № | Client Sample ID | Date | Matrix | OCPs | MOLD | Jar | Other ( ) | Sample Comments / DG Hazard Warning |
|---|---|---|---|---|---|---|---|---|
| 1 | MW01 – 0.1 | 17/11/21 | S | X | | 1 | | |
| 2 | " 0.25 | | | X | | 1 | | |
| 3 | " 0.50 | | | X | | 1 | | |
| 4 | " 0.75 | | | | X | 1 | | |
| 5 | " 1.0 | | | | X | 1 | | |
| 6 | " 1.5 | | | | X | 1 | | |
| 7 | " 2.0 | | | | X | 1 | | |
| 8 | " 2.5 | | | | X | 1 | | |
| 9 | " 3.0 | | | | X | 1 | | |
| 10 | " 3.5 | 17/11/21 | S | | X | 1 | | |
| | Total Counts | | | | | | | |

Method of Shipment: ☐ Courier (# ) ☑ Hand Delivered ☐ Postal

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Name | M - PAGE | Signature | | Date | 17/11/21 | Time | 12:20 |
| Laboratory Use Only | Received By | SYD \| BNE \| MEL \| PER \| ADL \| NEW \| DAR | Signature | Date | __/__/__ | Time | __:__ | Temperature | |
| | Received By | SYD \| BNE \| MEL \| PER \| ADL \| NEW \| DAR | Signature | Date | __/__/__ | Time | __:__ | Report № | |

 QS3009_R6 Modified by: S. Kojima Approved by: Dr. R Symons Approved on: 2 November 2016

Submission of samples to the laboratory will be deemed as acceptance of Eurofins | mgt Standard Terms and Conditions unless agreed otherwise. A copy of Eurofins | mgt Standard Terms and Conditions is available on request

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43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

# Sample Receipt Advice

| | |
|---|---|
| **Company name:** | Coffey Environments Pty Ltd QLD |
| **Contact name:** | Jeremy Wicks |
| **Project name:** | DVA GREENSLOPES |
| **Project ID:** | 754-BNEEN 234351 |
| **Turnaround time:** | 5 Day |
| **Date/Time received** | Nov 17, 2021 12:25 PM |
| **Eurofins reference** | 842197 |

## Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : .1 degrees Celsius.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✓ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- N/A Sample containers for volatile analysis received with zero headspace.
- ✓ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

## Notes

The sample QC02 will be forwarded to ALS.

## Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

**James McCann on phone : or by email: JamesMcCann@eurofins.com**

Results will be delivered electronically via email to Jeremy Wicks - Jeremy.Wicks@coffey.com.

*Note: A copy of these results will also be delivered to the general Coffey Environments Pty Ltd QLD email address.*

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

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Rolleston, Christchurch 7675
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**Company Name:** Coffey Environments Pty Ltd QLD
**Address:** Level 5, 12 Creek Street
Brisbane
QLD 4000

**Project Name:** DVA GREENSLOPES
**Project ID:** 754-BNEEN 234351

**Order No.:**
**Report #:** 842197
**Phone:** 07 3503 7192
**Fax:**

**Received:** Nov 17, 2021 12:25 PM
**Due:** Nov 24, 2021
**Priority:** 5 Day
**Contact Name:** Jeremy Wicks

**Eurofins Analytical Services Manager : James McCann**

| Sample Detail | | | | | | HOLD | Organochlorine Pesticides | Moisture Set | BTEXN and Volatile TRH |
|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | | X | X | |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | X | | | X |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | |
| **External Laboratory** | | | | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | | | | |
| 1 | QC01 | Nov 17, 2021 | | Soil | B21-No42012 | | X | X | |
| 2 | QC03 | Nov 17, 2021 | | Water | B21-No42013 | | X | | |
| 3 | QC04 | Nov 17, 2021 | | Water | B21-No42014 | | X | | |
| 4 | TRIP BLANK | Nov 17, 2021 | | Trip Blank (solid) | B21-No42015 | | | | X |
| 5 | MW01 - 0.1 | Nov 17, 2021 | | Soil | B21-No42016 | | X | X | |
| 6 | MW01 - 0.25 | Nov 17, 2021 | | Soil | B21-No42017 | | X | X | |
| 7 | MW01 - 0.50 | Nov 17, 2021 | | Soil | B21-No42018 | | X | X | |
| 8 | MW01 - 4.0 | Nov 17, 2021 | | Soil | B21-No42019 | X | | | |

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NATA # 1261 Site # 25079

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**Company Name:** Coffey Environments Pty Ltd QLD
**Address:** Level 5, 12 Creek Street
Brisbane
QLD 4000

**Project Name:** DVA GREENSLOPES
**Project ID:** 754-BNEEN 234351

**Order No.:**
**Report #:** 842197
**Phone:** 07 3503 7192
**Fax:**

**Received:** Nov 17, 2021 12:25 PM
**Due:** Nov 24, 2021
**Priority:** 5 Day
**Contact Name:** Jeremy Wicks

**Eurofins Analytical Services Manager : James McCann**

| Sample Detail | | | | | | HOLD | Organochlorine Pesticides | Moisture Set | BTEXN and Volatile TRH |
|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | | X | X | |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | X | | | X |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | |
| **External Laboratory** | | | | | | | | | |
| 9 | MW01 - 4.5 | Nov 17, 2021 | | Soil | B21-No42020 | X | | | |
| 10 | MW01 - 5.0 | Nov 17, 2021 | | Soil | B21-No42021 | X | | | |
| 11 | MW01 - 5.5 | Nov 17, 2021 | | Soil | B21-No42022 | X | | | |
| 12 | MW01 - 6.0 | Nov 17, 2021 | | Soil | B21-No42023 | X | | | |
| 13 | MW01 - 0.75 | Nov 17, 2021 | | Soil | B21-No42024 | X | | | |
| 14 | MW01 - 1.0 | Nov 17, 2021 | | Soil | B21-No42025 | X | | | |
| 15 | MW01 - 1.5 | Nov 17, 2021 | | Soil | B21-No42026 | X | | | |
| 16 | MW01 - 2.0 | Nov 17, 2021 | | Soil | B21-No42027 | X | | | |
| 17 | MW01 - 2.5 | Nov 17, 2021 | | Soil | B21-No42028 | X | | | |
| 18 | MW01 - 3.0 | Nov 17, 2021 | | Soil | B21-No42029 | X | | | |
| 19 | MW01 - 3.5 | Nov 17, 2021 | | Soil | B21-No42030 | X | | | |

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| **Brisbane Laboratory - NATA # 1261 Site # 20794** | X | | | X |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | |
| **External Laboratory** | | | | |
| **Test Counts** | 12 | 6 | 4 | 1 |

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# Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 1254

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.

**Coffey Environments Pty Ltd QLD**
**Level 5, 12 Creek Street**
**Brisbane**
**QLD 4000**

**Attention:** **Jeremy Wicks**

**Report** **842197-S**
Project name DVA GREENSLOPES
Project ID 754-BNEEN 234351
Received Date Nov 17, 2021

| **Client Sample ID** | | | **QC01** | **TRIP BLANK** | **MW01 - 0.1** | **MW01 - 0.25** |
|---|---|---|---|---|---|---|
| **Sample Matrix** | | | **Soil** | **Trip Blank (solid)** | **Soil** | **Soil** |
| **Eurofins Sample No.** | | | **B21-No42012** | **B21-No42015** | **B21-No42016** | **B21-No42017** |
| **Date Sampled** | | | **Nov 17, 2021** | **Nov 17, 2021** | **Nov 17, 2021** | **Nov 17, 2021** |
| Test/Reference | LOR | Unit | | | | |
| **Organochlorine Pesticides** | | | | | | |
| Chlordanes - Total | 0.1 | mg/kg | < 0.1 | - | < 0.1 | < 0.1 |
| 4.4'-DDD | 0.05 | mg/kg | < 0.05 | - | < 0.05 | < 0.05 |
| 4.4'-DDE | 0.05 | mg/kg | < 0.05 | - | < 0.05 | < 0.05 |
| 4.4'-DDT | 0.05 | mg/kg | < 0.05 | - | < 0.05 | < 0.05 |
| a-HCH | 0.05 | mg/kg | < 0.05 | - | < 0.05 | < 0.05 |
| Aldrin | 0.05 | mg/kg | < 0.05 | - | < 0.05 | < 0.05 |
| b-HCH | 0.05 | mg/kg | < 0.05 | - | < 0.05 | < 0.05 |
| d-HCH | 0.05 | mg/kg | < 0.05 | - | < 0.05 | < 0.05 |
| Dieldrin | 0.05 | mg/kg | < 0.05 | - | < 0.05 | < 0.05 |
| Endosulfan I | 0.05 | mg/kg | < 0.05 | - | < 0.05 | < 0.05 |
| Endosulfan II | 0.05 | mg/kg | < 0.05 | - | < 0.05 | < 0.05 |
| Endosulfan sulphate | 0.05 | mg/kg | < 0.05 | - | < 0.05 | < 0.05 |
| Endrin | 0.05 | mg/kg | < 0.05 | - | < 0.05 | < 0.05 |
| Endrin aldehyde | 0.05 | mg/kg | < 0.05 | - | < 0.05 | < 0.05 |
| Endrin ketone | 0.05 | mg/kg | < 0.05 | - | < 0.05 | < 0.05 |
| g-HCH (Lindane) | 0.05 | mg/kg | < 0.05 | - | < 0.05 | < 0.05 |
| Heptachlor | 0.05 | mg/kg | < 0.05 | - | < 0.05 | < 0.05 |
| Heptachlor epoxide | 0.05 | mg/kg | < 0.05 | - | < 0.05 | < 0.05 |
| Hexachlorobenzene | 0.05 | mg/kg | < 0.05 | - | < 0.05 | < 0.05 |
| Methoxychlor | 0.05 | mg/kg | < 0.05 | - | < 0.05 | < 0.05 |
| Toxaphene | 0.5 | mg/kg | < 0.5 | - | < 0.5 | < 0.5 |
| Aldrin and Dieldrin (Total)* | 0.05 | mg/kg | < 0.05 | - | < 0.05 | < 0.05 |
| DDT + DDE + DDD (Total)* | 0.05 | mg/kg | < 0.05 | - | < 0.05 | < 0.05 |
| Vic EPA IWRG 621 OCP (Total)* | 0.1 | mg/kg | < 0.1 | - | < 0.1 | < 0.1 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.1 | mg/kg | < 0.1 | - | < 0.1 | < 0.1 |
| Dibutylchlorendate (surr.) | 1 | % | 123 | - | 111 | 129 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 118 | - | 150 | 114 |
| | | | | | | |
| % Moisture | 1 | % | 20 | - | 18 | 21 |
| Naphthalene[N02] | 0.5 | mg/kg | - | < 0.5 | - | - |
| TRH C6-C10 less BTEX (F1)[N04] | 20 | mg/kg | - | < 20 | - | - |

| Client Sample ID | | | QC01 | TRIP BLANK | MW01 - 0.1 | MW01 - 0.25 |
|---|---|---|---|---|---|---|
| Sample Matrix | | | Soil | Trip Blank (solid) | Soil | Soil |
| Eurofins Sample No. | | | B21-No42012 | B21-No42015 | B21-No42016 | B21-No42017 |
| Date Sampled | | | Nov 17, 2021 | Nov 17, 2021 | Nov 17, 2021 | Nov 17, 2021 |
| Test/Reference | LOR | Unit | | | | |
| **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 | - | - |
| 4-Bromofluorobenzene (surr.) | 1 | % | - | 150 | - | - |
| **Total Recoverable Hydrocarbons** | | | | | | |
| TRH C6-C10 | 20 | mg/kg | - | < 20 | - | - |
| TRH C6-C9 | 20 | mg/kg | - | < 20 | - | - |

| Client Sample ID | | | MW01 - 0.50 |
|---|---|---|---|
| Sample Matrix | | | Soil |
| Eurofins Sample No. | | | B21-No42018 |
| Date Sampled | | | Nov 17, 2021 |
| Test/Reference | LOR | Unit | |
| **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 |
| 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 | % | 111 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 121 |
| | | | |
| % Moisture | 1 | % | 23 |

## 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 |
|---|---|---|---|
| Organochlorine Pesticides | Melbourne | Nov 20, 2021 | 14 Days |
| - Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270) | | | |
| % Moisture | Melbourne | Nov 18, 2021 | 14 Days |
| - Method: LTM-GEN-7080 Moisture | | | |
| Naphthalene | Brisbane | Nov 19, 2021 | 14 Days |
| - Method: USEPA 8260B - MGT 350A Volatile Organics by GCMS | | | |
| BTEX | Brisbane | Nov 19, 2021 | 14 Days |
| - Method: USEPA SW846 8260 | | | |
| Total Recoverable Hydrocarbons | Brisbane | Nov 19, 2021 | 14 Days |
| - Method: LTM-ORG-2010 TRH C6-C40 | | | |

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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

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NATA # 1261 Site # 25079

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| Sample Detail | | | | | | HOLD | Organochlorine Pesticides | Moisture Set | BTEXN and Volatile TRH |
|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | | X | X | |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | X | | | X |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | |
| **External Laboratory** | | | | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | | | | |
| 1 | QC01 | Nov 17, 2021 | | Soil | B21-No42012 | | X | X | |
| 2 | QC03 | Nov 17, 2021 | | Water | B21-No42013 | | X | | |
| 3 | QC04 | Nov 17, 2021 | | Water | B21-No42014 | | X | | |
| 4 | TRIP BLANK | Nov 17, 2021 | | Trip Blank (solid) | B21-No42015 | | | | X |
| 5 | MW01 - 0.1 | Nov 17, 2021 | | Soil | B21-No42016 | | X | X | |
| 6 | MW01 - 0.25 | Nov 17, 2021 | | Soil | B21-No42017 | | X | X | |
| 7 | MW01 - 0.50 | Nov 17, 2021 | | Soil | B21-No42018 | | X | X | |
| 8 | MW01 - 4.0 | Nov 17, 2021 | | Soil | B21-No42019 | X | | | |

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| **External Laboratory** | | | | | | | | | |
| 9 | MW01 - 4.5 | Nov 17, 2021 | | Soil | B21-No42020 | X | | | |
| 10 | MW01 - 5.0 | Nov 17, 2021 | | Soil | B21-No42021 | X | | | |
| 11 | MW01 - 5.5 | Nov 17, 2021 | | Soil | B21-No42022 | X | | | |
| 12 | MW01 - 6.0 | Nov 17, 2021 | | Soil | B21-No42023 | X | | | |
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| 15 | MW01 - 1.5 | Nov 17, 2021 | | Soil | B21-No42026 | X | | | |
| 16 | MW01 - 2.0 | Nov 17, 2021 | | Soil | B21-No42027 | X | | | |
| 17 | MW01 - 2.5 | Nov 17, 2021 | | Soil | B21-No42028 | X | | | |
| 18 | MW01 - 3.0 | Nov 17, 2021 | | Soil | B21-No42029 | X | | | |
| 19 | MW01 - 3.5 | Nov 17, 2021 | | Soil | B21-No42030 | X | | | |

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| **External Laboratory** | | | | |
| **Test Counts** | 12 | 6 | 4 | 1 |

## Internal Quality Control Review and Glossary

### General

1. 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.
3. 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.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue 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
**ug/L:** micrograms per litre
**ppm:** Parts per million
**ppb:** Parts per billion
**%:** Percentage
**org/100mL:** Organisms per 100 millilitres
**NTU:** Nephelometric Turbidity Units
**MPN/100mL:** Most Probable Number of organisms per 100 millilitres

### Terms

| | |
|---|---|
| **Dry** | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| **LOR** | Limit of Reporting. |
| **SPIKE** | Addition of the analyte to the sample and reported as percentage recovery. |
| **RPD** | Relative Percent Difference between two Duplicate pieces of analysis. |
| **LCS** | Laboratory Control Sample - reported as percent recovery. |
| **CRM** | Certified Reference Material - 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. |
| **Surr - Surrogate** | The addition of a like compound to the analyte target and reported as percentage recovery. |
| **Duplicate** | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| **USEPA** | United States Environmental Protection Agency |
| **APHA** | American Public Health Association |
| **TCLP** | Toxicity Characteristic Leaching Procedure |
| **COC** | Chain of Custody |
| **SRA** | Sample Receipt Advice |
| **QSM** | US Department of Defense Quality Systems Manual Version |
| **CP** | Client Parent - QC was performed on samples pertaining to this report |
| **NCP** | 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. |
| **TEQ** | Toxic Equivalency Quotient |
| **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% Phenols & 50-150% PFASs..

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

.

### QC Data General Comments

1. 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.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

**Quality Control Results**

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|
| **Method Blank** | | | | | | | |
| **Organochlorine Pesticides** | | | | | | | |
| Chlordanes - Total | mg/kg | < 0.1 | | | 0.1 | Pass | |
| 4.4'-DDD | mg/kg | < 0.05 | | | 0.05 | Pass | |
| 4.4'-DDE | mg/kg | < 0.05 | | | 0.05 | Pass | |
| 4.4'-DDT | mg/kg | < 0.05 | | | 0.05 | Pass | |
| a-HCH | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Aldrin | mg/kg | < 0.05 | | | 0.05 | Pass | |
| b-HCH | mg/kg | < 0.05 | | | 0.05 | Pass | |
| d-HCH | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Dieldrin | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endosulfan I | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endosulfan II | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endosulfan sulphate | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endrin | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endrin aldehyde | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Endrin ketone | mg/kg | < 0.05 | | | 0.05 | Pass | |
| g-HCH (Lindane) | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Heptachlor | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Heptachlor epoxide | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Hexachlorobenzene | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Methoxychlor | mg/kg | < 0.05 | | | 0.05 | Pass | |
| Toxaphene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| **Method Blank** | | | | | | | |
| Naphthalene | mg/kg | < 0.5 | | | 0.5 | Pass | |
| **Method Blank** | | | | | | | |
| **BTEX** | | | | | | | |
| Benzene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Toluene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Ethylbenzene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| m&p-Xylenes | mg/kg | < 0.2 | | | 0.2 | Pass | |
| o-Xylene | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Xylenes - Total* | mg/kg | < 0.3 | | | 0.3 | Pass | |
| **Method Blank** | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | | |
| TRH C6-C10 | mg/kg | < 20 | | | 20 | Pass | |
| TRH C6-C9 | mg/kg | < 20 | | | 20 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Organochlorine Pesticides** | | | | | | | |
| Chlordanes - Total | % | 99 | | | 70-130 | Pass | |
| 4.4'-DDD | % | 123 | | | 70-130 | Pass | |
| 4.4'-DDE | % | 89 | | | 70-130 | Pass | |
| 4.4'-DDT | % | 112 | | | 70-130 | Pass | |
| a-HCH | % | 94 | | | 70-130 | Pass | |
| Aldrin | % | 98 | | | 70-130 | Pass | |
| b-HCH | % | 92 | | | 70-130 | Pass | |
| d-HCH | % | 73 | | | 70-130 | Pass | |
| Dieldrin | % | 94 | | | 70-130 | Pass | |
| Endosulfan I | % | 110 | | | 70-130 | Pass | |
| Endosulfan II | % | 103 | | | 70-130 | Pass | |
| Endosulfan sulphate | % | 81 | | | 70-130 | Pass | |
| Endrin | % | 79 | | | 70-130 | Pass | |

| Test | | | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|---|---|
| Endrin aldehyde | | | % | 110 | | | 70-130 | Pass | |
| Endrin ketone | | | % | 96 | | | 70-130 | Pass | |
| g-HCH (Lindane) | | | % | 80 | | | 70-130 | Pass | |
| Heptachlor | | | % | 78 | | | 70-130 | Pass | |
| Heptachlor epoxide | | | % | 79 | | | 70-130 | Pass | |
| Hexachlorobenzene | | | % | 73 | | | 70-130 | Pass | |
| Methoxychlor | | | % | 123 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | | | |
| **BTEX** | | | | | | | | | |
| Benzene | | | % | 99 | | | 70-130 | Pass | |
| Toluene | | | % | 106 | | | 70-130 | Pass | |
| Ethylbenzene | | | % | 116 | | | 70-130 | Pass | |
| m&p-Xylenes | | | % | 115 | | | 70-130 | Pass | |
| Xylenes - Total* | | | % | 118 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | | | | | | |
| TRH C6-C10 | | | % | 119 | | | 70-130 | Pass | |
| TRH C6-C9 | | | % | 117 | | | 70-130 | Pass | |
| **Test** | **Lab Sample ID** | **QA Source** | **Units** | **Result 1** | | | **Acceptance Limits** | **Pass Limits** | **Qualifying Code** |
| **Spike - % Recovery** | | | | | | | | | |
| **Organochlorine Pesticides** | | | | Result 1 | | | | | |
| Chlordanes - Total | M21-No45037 | NCP | % | 96 | | | 70-130 | Pass | |
| 4.4'-DDD | M21-No45037 | NCP | % | 106 | | | 70-130 | Pass | |
| 4.4'-DDE | M21-No45037 | NCP | % | 96 | | | 70-130 | Pass | |
| 4.4'-DDT | M21-No45037 | NCP | % | 71 | | | 70-130 | Pass | |
| a-HCH | M21-No45037 | NCP | % | 81 | | | 70-130 | Pass | |
| Aldrin | M21-No45037 | NCP | % | 97 | | | 70-130 | Pass | |
| b-HCH | M21-No45037 | NCP | % | 88 | | | 70-130 | Pass | |
| d-HCH | M21-No45037 | NCP | % | 94 | | | 70-130 | Pass | |
| Dieldrin | M21-No45037 | NCP | % | 97 | | | 70-130 | Pass | |
| Endosulfan I | M21-No45037 | NCP | % | 114 | | | 70-130 | Pass | |
| Endosulfan II | M21-No45037 | NCP | % | 98 | | | 70-130 | Pass | |
| Endosulfan sulphate | M21-No45037 | NCP | % | 85 | | | 70-130 | Pass | |
| Endrin | M21-No45037 | NCP | % | 91 | | | 70-130 | Pass | |
| Endrin aldehyde | M21-No45037 | NCP | % | 86 | | | 70-130 | Pass | |
| Endrin ketone | M21-No45037 | NCP | % | 112 | | | 70-130 | Pass | |
| g-HCH (Lindane) | M21-No45037 | NCP | % | 111 | | | 70-130 | Pass | |
| Heptachlor | M21-No45037 | NCP | % | 101 | | | 70-130 | Pass | |
| Heptachlor epoxide | M21-No45037 | NCP | % | 128 | | | 70-130 | Pass | |
| Hexachlorobenzene | M21-No45037 | NCP | % | 106 | | | 70-130 | Pass | |
| Methoxychlor | M21-No45037 | NCP | % | 86 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **BTEX** | | | | Result 1 | | | | | |
| Benzene | B21-No40405 | NCP | % | 104 | | | 70-130 | Pass | |
| Toluene | B21-No40405 | NCP | % | 112 | | | 70-130 | Pass | |
| Ethylbenzene | B21-No40405 | NCP | % | 119 | | | 70-130 | Pass | |
| m&p-Xylenes | B21-No40405 | NCP | % | 127 | | | 70-130 | Pass | |
| o-Xylene | B21-No40405 | NCP | % | 128 | | | 70-130 | Pass | |
| Xylenes - Total* | B21-No40405 | NCP | % | 127 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | Result 1 | | | | | |
| TRH C6-C10 | B21-No40405 | NCP | % | 106 | | | 70-130 | Pass | |
| TRH C6-C9 | B21-No40405 | NCP | % | 108 | | | 70-130 | Pass | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|---|---|
| **Duplicate** | | | | | | | | | |
| **Organochlorine Pesticides** | | | | Result 1 | Result 2 | RPD | | | |
| Chlordanes - Total | M21-No45037 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| 4.4'-DDD | M21-No45037 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| 4.4'-DDE | M21-No45037 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| 4.4'-DDT | M21-No45037 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| a-HCH | M21-No45037 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Aldrin | M21-No45037 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| b-HCH | M21-No45037 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| d-HCH | M21-No45037 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Dieldrin | M21-No45037 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan I | M21-No45037 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan II | M21-No45037 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endosulfan sulphate | M21-No45037 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin | M21-No45037 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin aldehyde | M21-No45037 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Endrin ketone | M21-No45037 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| g-HCH (Lindane) | M21-No45037 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Heptachlor | M21-No45037 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Heptachlor epoxide | L21-No36627 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Hexachlorobenzene | M21-No45037 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Methoxychlor | M21-No45037 | NCP | mg/kg | < 0.05 | < 0.05 | <1 | 30% | Pass | |
| Toxaphene | M21-No45037 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| % Moisture | M21-No43390 | NCP | % | 25 | 25 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| Naphthalene | B21-No40404 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **BTEX** | | | | Result 1 | Result 2 | RPD | | | |
| Benzene | B21-No40404 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Toluene | B21-No40404 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Ethylbenzene | B21-No40404 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| m&p-Xylenes | B21-No40404 | NCP | mg/kg | < 0.2 | < 0.2 | <1 | 30% | Pass | |
| o-Xylene | B21-No40404 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Xylenes - Total* | B21-No40404 | NCP | mg/kg | < 0.3 | < 0.3 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Total Recoverable Hydrocarbons** | | | | Result 1 | Result 2 | RPD | | | |
| TRH C6-C10 | B21-No40404 | NCP | mg/kg | < 20 | < 20 | <1 | 30% | Pass | |
| TRH C6-C9 | B21-No40404 | NCP | mg/kg | < 20 | < 20 | <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 |
|---|---|
| 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. |

### Authorised by:

| | |
|---|---|
| James McCann | Analytical Services Manager |
| Jonathon Angell | Senior Analyst-Volatile (QLD) |
| Joseph Edouard | Senior Analyst-Organic (VIC) |

**Glenn Jackson**
**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 or please click here.

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# Certificate of Analysis

**Coffey Environments Pty Ltd QLD**
**Level 5, 12 Creek Street**
**Brisbane**
**QLD 4000**

**NATA Accredited**
**Accreditation Number 1261**
**Site Number 1254**

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:** **Jeremy Wicks**

**Report** **842197-W**
Project name DVA GREENSLOPES
Project ID 754-BNEEN 234351
Received Date Nov 17, 2021

| **Client Sample ID** | | | **QC03** | **QC04** |
|---|---|---|---|---|
| **Sample Matrix** | | | **Water** | **Water** |
| **Eurofins Sample No.** | | | **B21-No42013** | **B21-No42014** |
| **Date Sampled** | | | **Nov 17, 2021** | **Nov 17, 2021** |
| Test/Reference | LOR | Unit | | |
| **Organochlorine Pesticides** | | | | |
| Chlordanes - Total | 0.002 | mg/L | < 0.002 | < 0.002 |
| 4.4'-DDD | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| 4.4'-DDE | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| 4.4'-DDT | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| a-HCH | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| Aldrin | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| b-HCH | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| d-HCH | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| Dieldrin | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| Endosulfan I | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| Endosulfan II | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| Endosulfan sulphate | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| Endrin | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| Endrin aldehyde | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| Endrin ketone | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| g-HCH (Lindane) | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| Heptachlor | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| Heptachlor epoxide | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| Hexachlorobenzene | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| Methoxychlor | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| Toxaphene | 0.005 | mg/L | < 0.005 | < 0.005 |
| Aldrin and Dieldrin (Total)* | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| DDT + DDE + DDD (Total)* | 0.0002 | mg/L | < 0.0002 | < 0.0002 |
| Vic EPA IWRG 621 OCP (Total)* | 0.002 | mg/L | < 0.002 | < 0.002 |
| Vic EPA IWRG 621 Other OCP (Total)* | 0.002 | mg/L | < 0.002 | < 0.002 |
| Dibutylchlorendate (surr.) | 1 | % | 53 | 136 |
| Tetrachloro-m-xylene (surr.) | 1 | % | 78 | 129 |

## 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 |
|---|---|---|---|
| Organochlorine Pesticides | Melbourne | Nov 19, 2021 | 7 Days |

- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)

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**Company Name:** Coffey Environments Pty Ltd QLD
**Address:** Level 5, 12 Creek Street
Brisbane
QLD 4000

**Project Name:** DVA GREENSLOPES
**Project ID:** 754-BNEEN 234351

**Order No.:**
**Report #:** 842197
**Phone:** 07 3503 7192
**Fax:**

**Received:** Nov 17, 2021 12:25 PM
**Due:** Nov 24, 2021
**Priority:** 5 Day
**Contact Name:** Jeremy Wicks

**Eurofins Analytical Services Manager : James McCann**

| Sample Detail | | | | | | HOLD | Organochlorine Pesticides | Moisture Set | BTEXN and Volatile TRH |
|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | | X | X | |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | X | | | X |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | |
| **External Laboratory** | | | | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | | | | |
| 1 | QC01 | Nov 17, 2021 | | Soil | B21-No42012 | | X | X | |
| 2 | QC03 | Nov 17, 2021 | | Water | B21-No42013 | | X | | |
| 3 | QC04 | Nov 17, 2021 | | Water | B21-No42014 | | X | | |
| 4 | TRIP BLANK | Nov 17, 2021 | | Trip Blank (solid) | B21-No42015 | | | | X |
| 5 | MW01 - 0.1 | Nov 17, 2021 | | Soil | B21-No42016 | | X | X | |
| 6 | MW01 - 0.25 | Nov 17, 2021 | | Soil | B21-No42017 | | X | X | |
| 7 | MW01 - 0.50 | Nov 17, 2021 | | Soil | B21-No42018 | | X | X | |
| 8 | MW01 - 4.0 | Nov 17, 2021 | | Soil | B21-No42019 | X | | | |

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Phone : +64 9 526 45 51
IANZ # 1327

**Christchurch**
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

**Company Name:** Coffey Environments Pty Ltd QLD
**Address:** Level 5, 12 Creek Street
Brisbane
QLD 4000

**Project Name:** DVA GREENSLOPES
**Project ID:** 754-BNEEN 234351

**Order No.:**
**Report #:** 842197
**Phone:** 07 3503 7192
**Fax:**

**Received:** Nov 17, 2021 12:25 PM
**Due:** Nov 24, 2021
**Priority:** 5 Day
**Contact Name:** Jeremy Wicks

**Eurofins Analytical Services Manager : James McCann**

| Sample Detail | | | | | | HOLD | Organochlorine Pesticides | Moisture Set | BTEXN and Volatile TRH |
|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | | X | X | |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | X | | | X |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | |
| **External Laboratory** | | | | | | | | | |
| 9 | MW01 - 4.5 | Nov 17, 2021 | | Soil | B21-No42020 | X | | | |
| 10 | MW01 - 5.0 | Nov 17, 2021 | | Soil | B21-No42021 | X | | | |
| 11 | MW01 - 5.5 | Nov 17, 2021 | | Soil | B21-No42022 | X | | | |
| 12 | MW01 - 6.0 | Nov 17, 2021 | | Soil | B21-No42023 | X | | | |
| 13 | MW01 - 0.75 | Nov 17, 2021 | | Soil | B21-No42024 | X | | | |
| 14 | MW01 - 1.0 | Nov 17, 2021 | | Soil | B21-No42025 | X | | | |
| 15 | MW01 - 1.5 | Nov 17, 2021 | | Soil | B21-No42026 | X | | | |
| 16 | MW01 - 2.0 | Nov 17, 2021 | | Soil | B21-No42027 | X | | | |
| 17 | MW01 - 2.5 | Nov 17, 2021 | | Soil | B21-No42028 | X | | | |
| 18 | MW01 - 3.0 | Nov 17, 2021 | | Soil | B21-No42029 | X | | | |
| 19 | MW01 - 3.5 | Nov 17, 2021 | | Soil | B21-No42030 | X | | | |

eurofins | Environment Testing

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

**Eurofins Environment Testing Australia Pty Ltd**
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NATA # 1261 Site # 18217

**Brisbane**
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NATA # 1261 Site # 20794

**Newcastle**
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Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

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ABN: 91 05 0159 898

**Perth**
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**Christchurch**
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

**Company Name:** Coffey Environments Pty Ltd QLD
**Address:** Level 5, 12 Creek Street
Brisbane
QLD 4000

**Project Name:** DVA GREENSLOPES
**Project ID:** 754-BNEEN 234351

**Order No.:**
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**Eurofins Analytical Services Manager : James McCann**

| Sample Detail | HOLD | Organochlorine Pesticides | Moisture Set | BTEXN and Volatile TRH |
|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | X | X | |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | X | | | X |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | |
| **External Laboratory** | | | | |
| **Test Counts** | 12 | 6 | 4 | 1 |

## Internal Quality Control Review and Glossary

### General

1. 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.
3. 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.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue 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
**ug/L:** micrograms per litre
**ppm:** Parts per million
**ppb:** Parts per billion
**%:** Percentage
**org/100mL:** Organisms per 100 millilitres
**NTU:** Nephelometric Turbidity Units
**MPN/100mL:** Most Probable Number of organisms per 100 millilitres

### Terms

| | |
|---|---|
| **Dry** | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| **LOR** | Limit of Reporting. |
| **SPIKE** | Addition of the analyte to the sample and reported as percentage recovery. |
| **RPD** | Relative Percent Difference between two Duplicate pieces of analysis. |
| **LCS** | Laboratory Control Sample - reported as percent recovery. |
| **CRM** | Certified Reference Material - 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. |
| **Surr - Surrogate** | The addition of a like compound to the analyte target and reported as percentage recovery. |
| **Duplicate** | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| **USEPA** | United States Environmental Protection Agency |
| **APHA** | American Public Health Association |
| **TCLP** | Toxicity Characteristic Leaching Procedure |
| **COC** | Chain of Custody |
| **SRA** | Sample Receipt Advice |
| **QSM** | US Department of Defense Quality Systems Manual Version |
| **CP** | Client Parent - QC was performed on samples pertaining to this report |
| **NCP** | 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. |
| **TEQ** | Toxic Equivalency Quotient |
| **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% Phenols & 50-150% PFASs..

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

.

### QC Data General Comments

1. 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.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

**Quality Control Results**

| Test | | | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|---|---|
| **Method Blank** | | | | | | | | | |
| **Organochlorine Pesticides** | | | | | | | | | |
| Chlordanes - Total | | | mg/L | < 0.002 | | | 0.002 | Pass | |
| 4.4'-DDD | | | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| 4.4'-DDE | | | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| 4.4'-DDT | | | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| a-HCH | | | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Aldrin | | | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| b-HCH | | | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| d-HCH | | | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Dieldrin | | | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Endosulfan I | | | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Endosulfan II | | | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Endosulfan sulphate | | | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Endrin | | | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Endrin aldehyde | | | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Endrin ketone | | | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| g-HCH (Lindane) | | | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Heptachlor | | | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Heptachlor epoxide | | | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Hexachlorobenzene | | | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Methoxychlor | | | mg/L | < 0.0002 | | | 0.0002 | Pass | |
| Toxaphene | | | mg/L | < 0.005 | | | 0.005 | Pass | |
| **LCS - % Recovery** | | | | | | | | | |
| **Organochlorine Pesticides** | | | | | | | | | |
| Chlordanes - Total | | | % | 105 | | | 70-130 | Pass | |
| 4.4'-DDD | | | % | 93 | | | 70-130 | Pass | |
| 4.4'-DDE | | | % | 93 | | | 70-130 | Pass | |
| 4.4'-DDT | | | % | 100 | | | 70-130 | Pass | |
| a-HCH | | | % | 86 | | | 70-130 | Pass | |
| Aldrin | | | % | 99 | | | 70-130 | Pass | |
| b-HCH | | | % | 91 | | | 70-130 | Pass | |
| d-HCH | | | % | 114 | | | 70-130 | Pass | |
| Dieldrin | | | % | 91 | | | 70-130 | Pass | |
| Endosulfan I | | | % | 128 | | | 70-130 | Pass | |
| Endosulfan II | | | % | 92 | | | 70-130 | Pass | |
| Endosulfan sulphate | | | % | 110 | | | 70-130 | Pass | |
| Endrin | | | % | 91 | | | 70-130 | Pass | |
| Endrin aldehyde | | | % | 100 | | | 70-130 | Pass | |
| Endrin ketone | | | % | 108 | | | 70-130 | Pass | |
| g-HCH (Lindane) | | | % | 124 | | | 70-130 | Pass | |
| Heptachlor | | | % | 84 | | | 70-130 | Pass | |
| Heptachlor epoxide | | | % | 123 | | | 70-130 | Pass | |
| Hexachlorobenzene | | | % | 110 | | | 70-130 | Pass | |
| Methoxychlor | | | % | 124 | | | 70-130 | Pass | |
| **Test** | **Lab Sample ID** | **QA Source** | **Units** | **Result 1** | | | **Acceptance Limits** | **Pass Limits** | **Qualifying Code** |
| **Spike - % Recovery** | | | | | | | | | |
| **Organochlorine Pesticides** | | | | Result 1 | | | | | |
| Chlordanes - Total | M21-No60586 | NCP | % | 116 | | | 70-130 | Pass | |
| 4.4'-DDD | M21-No60586 | NCP | % | 124 | | | 70-130 | Pass | |
| 4.4'-DDE | M21-No60586 | NCP | % | 115 | | | 70-130 | Pass | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|---|---|
| 4.4'-DDT | M21-No60586 | NCP | % | 98 | | | 70-130 | Pass | |
| a-HCH | M21-No60586 | NCP | % | 122 | | | 70-130 | Pass | |
| Aldrin | M21-No60586 | NCP | % | 119 | | | 70-130 | Pass | |
| b-HCH | M21-No60586 | NCP | % | 90 | | | 70-130 | Pass | |
| d-HCH | M21-No60586 | NCP | % | 114 | | | 70-130 | Pass | |
| Dieldrin | M21-No60586 | NCP | % | 103 | | | 70-130 | Pass | |
| Endosulfan I | M21-No60586 | NCP | % | 129 | | | 70-130 | Pass | |
| Endosulfan II | M21-No60586 | NCP | % | 100 | | | 70-130 | Pass | |
| Endosulfan sulphate | M21-No60586 | NCP | % | 126 | | | 70-130 | Pass | |
| Endrin | M21-No60586 | NCP | % | 93 | | | 70-130 | Pass | |
| Endrin aldehyde | M21-No60586 | NCP | % | 108 | | | 70-130 | Pass | |
| Endrin ketone | M21-No60586 | NCP | % | 87 | | | 70-130 | Pass | |
| g-HCH (Lindane) | M21-No60586 | NCP | % | 123 | | | 70-130 | Pass | |
| Heptachlor | M21-No60586 | NCP | % | 108 | | | 70-130 | Pass | |
| Heptachlor epoxide | M21-No60586 | NCP | % | 95 | | | 70-130 | Pass | |
| Hexachlorobenzene | M21-No60586 | NCP | % | 104 | | | 70-130 | Pass | |
| Methoxychlor | M21-No60586 | NCP | % | 101 | | | 70-130 | Pass | |
| **Test** | **Lab Sample ID** | **QA Source** | **Units** | **Result 1** | | | **Acceptance Limits** | **Pass Limits** | **Qualifying Code** |
| **Duplicate** | | | | | | | | | |
| **Organochlorine Pesticides** | | | | Result 1 | Result 2 | RPD | | | |
| Chlordanes - Total | M21-No60585 | NCP | mg/L | < 0.002 | < 0.002 | <1 | 30% | Pass | |
| 4.4'-DDD | M21-No60585 | NCP | mg/L | < 0.0002 | < 0.0002 | <1 | 30% | Pass | |
| 4.4'-DDE | M21-No60585 | NCP | mg/L | < 0.0002 | < 0.0002 | <1 | 30% | Pass | |
| 4.4'-DDT | M21-No60585 | NCP | mg/L | < 0.0002 | < 0.0002 | <1 | 30% | Pass | |
| a-HCH | M21-No60585 | NCP | mg/L | < 0.0002 | < 0.0002 | <1 | 30% | Pass | |
| Aldrin | M21-No60585 | NCP | mg/L | < 0.0002 | < 0.0002 | <1 | 30% | Pass | |
| b-HCH | M21-No60585 | NCP | mg/L | < 0.0002 | < 0.0002 | <1 | 30% | Pass | |
| d-HCH | M21-No60585 | NCP | mg/L | < 0.0002 | < 0.0002 | <1 | 30% | Pass | |
| Dieldrin | M21-No60585 | NCP | mg/L | < 0.0002 | < 0.0002 | <1 | 30% | Pass | |
| Endosulfan I | M21-No60585 | NCP | mg/L | < 0.0002 | < 0.0002 | <1 | 30% | Pass | |
| Endosulfan II | M21-No60585 | NCP | mg/L | < 0.0002 | < 0.0002 | <1 | 30% | Pass | |
| Endosulfan sulphate | M21-No60585 | NCP | mg/L | < 0.0002 | < 0.0002 | <1 | 30% | Pass | |
| Endrin | M21-No60585 | NCP | mg/L | < 0.0002 | < 0.0002 | <1 | 30% | Pass | |
| Endrin aldehyde | M21-No60585 | NCP | mg/L | < 0.0002 | < 0.0002 | <1 | 30% | Pass | |
| Endrin ketone | M21-No60585 | NCP | mg/L | < 0.0002 | < 0.0002 | <1 | 30% | Pass | |
| g-HCH (Lindane) | M21-No60585 | NCP | mg/L | < 0.0002 | < 0.0002 | <1 | 30% | Pass | |
| Heptachlor | M21-No60585 | NCP | mg/L | < 0.0002 | < 0.0002 | <1 | 30% | Pass | |
| Heptachlor epoxide | M21-No60585 | NCP | mg/L | < 0.0002 | < 0.0002 | <1 | 30% | Pass | |
| Hexachlorobenzene | M21-No60585 | NCP | mg/L | < 0.0002 | < 0.0002 | <1 | 30% | Pass | |
| Methoxychlor | M21-No60585 | NCP | mg/L | < 0.0002 | < 0.0002 | <1 | 30% | Pass | |
| Toxaphene | M21-No60585 | NCP | mg/L | < 0.005 | < 0.005 | <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 |

### Authorised by:

| | |
|---|---|
| James McCann | Analytical Services Manager |
| Joseph Edouard | Senior Analyst-Organic (VIC) |

**Glenn Jackson**
**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 or please click here.

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# 2 day TAT Additional Report 822538 : Site 754-BNEEN282781 DVA GREENSLOPES - URGENT

James McCann <JamesMcCann@eurofins.com>

Thu 12/2/2021 1:54 PM

To: #AU03_EnviroSampleBris <EnviroSampleBris@eurofins.com>

Cc: #AU_CAU001_EnviroSampleVic <EnviroSampleVic@eurofins.com>; Alana Wadsworth <AlanaWadsworth@eurofins.com>

Hey Sarah,

Can you please log in the below for NEPM soil classification on a 2-day TAT.

MW01_0.25- No42017 (in Melb) please ask Melbourne to sticker and add subsample codee to Brisbane
MW01_0.75- No42024 (in Bris BSNO228) please subsample to Melbourne

BSN0207
228

Kind Regards,

**James McCann**
Analytical Service Manager – QLD

Mobile : 0499 572 666

**From:** Wicks, Jeremy <Jeremy.Wicks@coffey.com>
**Sent:** Thursday, 2 December 2021 1:47 PM
**To:** James McCann <JamesMcCann@eurofins.com>; Alana Wadsworth <AlanaWadsworth@eurofins.com>
**Cc:** #AU03_EnviroSampleBris <EnviroSampleBris@eurofins.com>
**Subject:** RE: Eurofins Test Results, Invoice - Report 822538 : Site 754-BNEEN282781 DVA GREENSLOPES - URGENT

EXTERNAL EMAIL*

Hi James

846389

Can you please run the following samples from Batch 842197 instead.

MW01_0.25
MW01_0.75

**Jeremy Wicks** | Environments Team Leader - Queensland
Direct **+61 7 3239 9357** | Business **+61 7 3239 9300** | Mobile **+61 435 956 733** | jeremy.wicks@tetratech.com

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TETRA TECH COFFEY

**From:** James McCann <JamesMcCann@eurofins.com>
**Sent:** Thursday, 2 December 2021 1:42 PM
**To:** Wicks, Jeremy <Jeremy.Wicks@coffey.com>; Alana Wadsworth <AlanaWadsworth@eurofins.com>
**Cc:** #AU03_EnviroSampleBris <EnviroSampleBris@eurofins.com>
**Subject:** RE: Eurofins Test Results, Invoice - Report 822538 : Site 754-BNEEN282781 DVA GREENSLOPES - URGENT

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

Hi Jeremy,

Unfortunately, I've just got feedback from the lab that these samples have reached expiry and has since been discarded so we won't be able to run those tests for you.

Kind Regards,

**James McCann**
Analytical Service Manager – QLD

Mobile : 0499 572 666

**From:** Wicks, Jeremy <Jeremy.Wicks@coffey.com>
**Sent:** Thursday, 2 December 2021 1:12 PM
**To:** Alana Wadsworth <AlanaWadsworth@eurofins.com>
**Cc:** #AU03_EnviroSampleBris <EnviroSampleBris@eurofins.com>; James McCann <JamesMcCann@eurofins.com>
**Subject:** Eurofins Test Results, Invoice - Report 822538 : Site 754-BNEEN282781 DVA GREENSLOPES - URGENT
**Importance:** High

EXTERNAL EMAIL*

Alana

Can you please schedule the following samples on a fast 24 hr TAT for NEPM Screen for Soil Classification for DVA Greenslopes from Batch 822538.

BH01_0.3
BH07_0.5

Best regards

**Jeremy Wicks** | Environments Team Leader - Queensland
Direct **+61 7 3239 9357** | Business **+61 7 3239 9300** | Mobile **+61 435 956 733** | jeremy.wicks@tetratech.com

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Level 5, 12 Creek Street | Brisbane QLD 4000 Australia | tetratech.com | tetratechcoffey.com

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TETRA TECH COFFEY

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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

**Brisbane**
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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

**Newcastle**
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Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

**Eurofins ARL Pty Ltd**
ABN: 91 05 0159 898

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Welshpool WA 6106
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NATA # 2377 Site # 2370

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Phone : +64 9 526 45 51
IANZ # 1327

**Christchurch**
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

# Sample Receipt Advice

| | |
|---|---|
| **Company name:** | Coffey Environments Pty Ltd QLD |
| **Contact name:** | Jeremy Wicks |
| **Project name:** | DVA GREENSLOPES |
| **Project ID:** | 754-BNEEN 234351 |
| **Turnaround time:** | 2 Day |
| **Date/Time received** | Dec 2, 2021 1:54 PM |
| **Eurofins reference** | 846389 |

## Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : .1 degrees Celsius.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✓ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- **N/A** Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- **N/A** Custody Seals intact (if used).

## Notes

## Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

**Alana Wadsworth on phone : or by email: alanawadsworth@eurofins.com**

Results will be delivered electronically via email to Jeremy Wicks - Jeremy.Wicks@coffey.com.

*Note: A copy of these results will also be delivered to the general Coffey Environments Pty Ltd QLD email address.*

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

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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

**Brisbane**
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**Newcastle**
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PO Box 60 Wickham 2293
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NATA # 1261 Site # 25079

**Eurofins ARL Pty Ltd**
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NATA # 2377 Site # 2370

**Eurofins Environment Testing NZ Limited**
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Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

**Christchurch**
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

**Company Name:** Coffey Environments Pty Ltd QLD
**Address:** Level 5, 12 Creek Street
Brisbane
QLD 4000

**Project Name:** DVA GREENSLOPES
**Project ID:** 754-BNEEN 234351

**Order No.:**
**Report #:** 846389
**Phone:** 07 3503 7192
**Fax:**

**Received:** Dec 2, 2021 1:54 PM
**Due:** Dec 6, 2021
**Priority:** 2 Day
**Contact Name:** Jeremy Wicks

**Eurofins Analytical Services Manager : Alana Wadsworth**

| Sample Detail | | | | | | Chromium (hexavalent) | Metals M8 | Moisture Set | NEPM Screen for Soil Classification |
|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | X | X | X |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | |
| **External Laboratory** | | | | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | | | | |
| 1 | MW01 - 0.25 | Nov 17, 2021 | | Soil | B21-De05649 | | | X | X |
| 2 | MW01 - 0.75 | Nov 17, 2021 | | Soil | B21-De05650 | X | X | X | X |
| **Test Counts** | | | | | | 1 | 1 | 2 | 2 |

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# Certificate of Analysis

**NATA Accredited**
**Accreditation Number 1261**
**Site Number 20794**

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.

**Coffey Environments Pty Ltd QLD**
**Level 5, 12 Creek Street**
**Brisbane**
**QLD 4000**

**Attention:** **Jeremy Wicks**

**Report** **846389-S**
Project name DVA GREENSLOPES
Project ID 754-BNEEN 234351
Received Date Dec 02, 2021

| **Client Sample ID** | | | **MW01 - 0.25** | **MW01 - 0.75** |
|---|---|---|---|---|
| **Sample Matrix** | | | **Soil** | **Soil** |
| **Eurofins Sample No.** | | | **B21-De05649** | **B21-De05650** |
| **Date Sampled** | | | **Nov 17, 2021** | **Nov 17, 2021** |
| Test/Reference | LOR | Unit | | |
| | | | | |
| % Clay | 1 | % | I/S | 24 |
| Conductivity (1:5 aqueous extract at 25°C as rec.) | 10 | uS/cm | 36 | 200 |
| pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.) | 0.1 | pH Units | 5.5 | 6.6 |
| Total Organic Carbon | 0.1 | % | 22 | 0.6 |
| % Moisture | 1 | % | 20 | 21 |
| Chromium (hexavalent) | 1 | mg/kg | - | < 1 |
| **Heavy Metals** | | | | |
| Arsenic | 2 | mg/kg | - | 3.5 |
| Cadmium | 0.5 | mg/kg | - | < 0.5 |
| Chromium | 5 | mg/kg | - | 120 |
| Copper | 5 | mg/kg | - | 24 |
| Iron | 20 | mg/kg | 10000 | 47000 |
| Lead | 5 | mg/kg | - | < 5 |
| Mercury | 0.1 | mg/kg | - | < 0.1 |
| Nickel | 5 | mg/kg | - | 52 |
| Zinc | 5 | mg/kg | - | 30 |
| **Heavy Metals** | | | | |
| Iron (%) | 0.01 | % | 1.0 | 4.7 |
| **Cation Exchange Capacity** | | | | |
| Cation Exchange Capacity | 0.05 | meq/100g | 17 | 33 |

## 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 |
|---|---|---|---|
| NEPM Screen for Soil Classification | | | |
| % Clay | Brisbane | Dec 06, 2021 | 14 Days |
| - Method: LTM-GEN-7040 | | | |
| Conductivity (1:5 aqueous extract at 25°C as rec.) | Melbourne | Dec 03, 2021 | 7 Days |
| - Method: LTM-INO-4030 Conductivity | | | |
| pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.) | Melbourne | Dec 03, 2021 | 7 Days |
| - Method: LTM-GEN-7090 pH in soil by ISE | | | |
| Total Organic Carbon | Melbourne | Dec 03, 2021 | 28 Days |
| - Method: LTM-INO-4060 Total Organic Carbon in water and soil | | | |
| Heavy Metals | Brisbane | Dec 06, 2021 | 28 Days |
| - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | | | |
| Cation Exchange Capacity | Melbourne | Dec 03, 2021 | 28 Days |
| - Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage | | | |
| % Moisture | Brisbane | Dec 02, 2021 | 14 Days |
| - Method: LTM-GEN-7080 Moisture | | | |
| Chromium (hexavalent) | Melbourne | Dec 03, 2021 | 28 Days |
| - Method: APHA 3500-Cr Hexavalent Chromium- (Extraction:- USEPA3060) | | | |
| Metals M8 | Brisbane | Dec 02, 2021 | 28 Days |
| - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | | | |

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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

**Brisbane**
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NATA # 1261 Site # 20794

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PO Box 60 Wickham 2293
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NATA # 1261 Site # 25079

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IANZ # 1290

**Company Name:** Coffey Environments Pty Ltd QLD
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**Received:** Dec 2, 2021 1:54 PM
**Due:** Dec 6, 2021
**Priority:** 2 Day
**Contact Name:** Jeremy Wicks

**Eurofins Analytical Services Manager : Alana Wadsworth**

| Sample Detail | | | | | | Chromium (hexavalent) | Metals M8 | Moisture Set | NEPM Screen for Soil Classification |
|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | X | X | X |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | |
| **External Laboratory** | | | | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | | | | |
| 1 | MW01 - 0.25 | Nov 17, 2021 | | Soil | B21-De05649 | | | X | X |
| 2 | MW01 - 0.75 | Nov 17, 2021 | | Soil | B21-De05650 | X | X | X | X |
| **Test Counts** | | | | | | 1 | 1 | 2 | 2 |

## Internal Quality Control Review and Glossary

### General

1. 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.
3. 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.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue 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
**ug/L:** micrograms per litre
**ppm:** Parts per million
**ppb:** Parts per billion
**%:** Percentage
**org/100mL:** Organisms per 100 millilitres
**NTU:** Nephelometric Turbidity Units
**MPN/100mL:** Most Probable Number of organisms per 100 millilitres

### Terms

| | |
|---|---|
| **Dry** | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| **LOR** | Limit of Reporting. |
| **SPIKE** | Addition of the analyte to the sample and reported as percentage recovery. |
| **RPD** | Relative Percent Difference between two Duplicate pieces of analysis. |
| **LCS** | Laboratory Control Sample - reported as percent recovery. |
| **CRM** | Certified Reference Material - 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. |
| **Surr - Surrogate** | The addition of a like compound to the analyte target and reported as percentage recovery. |
| **Duplicate** | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| **USEPA** | United States Environmental Protection Agency |
| **APHA** | American Public Health Association |
| **TCLP** | Toxicity Characteristic Leaching Procedure |
| **COC** | Chain of Custody |
| **SRA** | Sample Receipt Advice |
| **QSM** | US Department of Defense Quality Systems Manual Version |
| **CP** | Client Parent - QC was performed on samples pertaining to this report |
| **NCP** | 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. |
| **TEQ** | Toxic Equivalency Quotient |
| **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% Phenols & 50-150% PFASs..

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

.

### QC Data General Comments

1. 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.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

**Quality Control Results**

| Test | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|
| **Method Blank** | | | | | | | |
| Conductivity (1:5 aqueous extract at 25°C as rec.) | uS/cm | < 10 | | | 10 | Pass | |
| Chromium (hexavalent) | mg/kg | < 1 | | | 1 | Pass | |
| **Method Blank** | | | | | | | |
| **Heavy Metals** | | | | | | | |
| Arsenic | mg/kg | < 2 | | | 2 | Pass | |
| Cadmium | mg/kg | < 0.5 | | | 0.5 | Pass | |
| Chromium | mg/kg | < 5 | | | 5 | Pass | |
| Copper | mg/kg | < 5 | | | 5 | Pass | |
| Iron | mg/kg | < 20 | | | 20 | Pass | |
| Lead | mg/kg | < 5 | | | 5 | Pass | |
| Mercury | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Nickel | mg/kg | < 5 | | | 5 | Pass | |
| Zinc | mg/kg | < 5 | | | 5 | Pass | |
| **Method Blank** | | | | | | | |
| **Cation Exchange Capacity** | | | | | | | |
| Cation Exchange Capacity | meq/100g | < 0.05 | | | 0.05 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| % Clay | % | 95 | | | 70-130 | Pass | |
| Total Organic Carbon | % | 100 | | | 70-130 | Pass | |
| Chromium (hexavalent) | % | 117 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | |
| **Heavy Metals** | | | | | | | |
| Arsenic | % | 99 | | | 80-120 | Pass | |
| Cadmium | % | 100 | | | 80-120 | Pass | |
| Chromium | % | 104 | | | 80-120 | Pass | |
| Copper | % | 107 | | | 80-120 | Pass | |
| Iron | % | 104 | | | 80-120 | Pass | |
| Lead | % | 105 | | | 80-120 | Pass | |
| Mercury | % | 108 | | | 80-120 | Pass | |
| Nickel | % | 101 | | | 80-120 | Pass | |
| Zinc | % | 101 | | | 80-120 | Pass | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|---|---|
| **Spike - % Recovery** | | | | | | | | | |
| | | | | Result 1 | | | | | |
| Chromium (hexavalent) | M21-De08181 | NCP | % | 119 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | | | | | |
| Arsenic | B21-No69376 | NCP | % | 96 | | | 75-125 | Pass | |
| Cadmium | B21-No69376 | NCP | % | 103 | | | 75-125 | Pass | |
| Chromium | B21-No69376 | NCP | % | 103 | | | 75-125 | Pass | |
| Copper | B21-No69376 | NCP | % | 109 | | | 75-125 | Pass | |
| Lead | B21-No69376 | NCP | % | 106 | | | 75-125 | Pass | |
| Mercury | B21-No69376 | NCP | % | 101 | | | 75-125 | Pass | |
| Nickel | B21-No69376 | NCP | % | 104 | | | 75-125 | Pass | |
| Zinc | B21-No69376 | NCP | % | 105 | | | 75-125 | Pass | |

| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|---|---|
| **Duplicate** | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| Conductivity (1:5 aqueous extract at 25°C as rec.) | M21-Oc00876 | NCP | uS/cm | 260 | 240 | 7.1 | 30% | Pass | |
| pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.) | M21-Oc00876 | NCP | pH Units | 7.4 | 7.6 | pass | 30% | Pass | |
| Total Organic Carbon | N21-My59441 | NCP | % | 1.1 | 1.0 | 11 | 30% | Pass | |
| % Moisture | S21-De00951 | NCP | % | 16 | 18 | 7.0 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | Result 2 | RPD | | | |
| Iron | B21-No66833 | NCP | mg/kg | 6300 | 6600 | 5.0 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Cation Exchange Capacity** | | | | Result 1 | Result 2 | RPD | | | |
| Cation Exchange Capacity | M21-No71771 | NCP | meq/100g | 10 | 12 | 13 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| Chromium (hexavalent) | M21-No71776 | NCP | mg/kg | < 1 | < 1 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic | B21-No69390 | NCP | mg/kg | 4.2 | 5.1 | 20 | 30% | Pass | |
| Cadmium | B21-No69390 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Chromium | B21-No69390 | NCP | mg/kg | 16 | 15 | 11 | 30% | Pass | |
| Lead | B21-No69390 | NCP | mg/kg | 5.4 | 6.9 | 25 | 30% | Pass | |
| Mercury | B21-No69390 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Nickel | B21-No69390 | NCP | mg/kg | 7.1 | 6.1 | 14 | 30% | Pass | |
| Zinc | B21-No69390 | NCP | mg/kg | 30 | 32 | 9.0 | 30% | Pass | |

## Comments

### Sample Integrity

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

### Authorised by:

| | |
|---|---|
| James McCann | Analytical Services Manager |
| Emily Rosenberg | Senior Analyst-Metal (VIC) |
| Jonathon Angell | Senior Analyst-Inorganic (QLD) |
| Scott Beddoes | Senior Analyst-Inorganic (VIC) |
| Steven Trout | Senior Analyst-Metal (QLD) |

**Glenn Jackson**
**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 or please click here.

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.

# CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| **Work Order** | : **EB2125660** | Page | : 1 of 6 |
| Client | : **TETRA TECH COFFEY PTY LTD** | Laboratory | : Environmental Division Brisbane |
| Contact | : MR JEREMY WICKS | Contact | : Khaleda Ataei |
| Address | : LEVEL 5 12 CREEK STREET<br>BRISBANE QLD, AUSTRALIA 4000 | Address | : 2 Byth Street Stafford QLD Australia 4053 |
| Telephone | : ---- | Telephone | : + 61 2 8784 8555 |
| Project | : 754-BNEEN28781 DVA Greenslopes | Date Samples Received | : 09-Sep-2021 15:04 |
| Order number | : ---- | Date Analysis Commenced | : 14-Sep-2021 |
| C-O-C number | : ---- | Issue Date | : 17-Sep-2021 12:56 |
| Sampler | : ---- | | |
| Site | : 114 Newdegate Street Greenslopes | | |
| Quote number | : EN/222 | | |
| No. of samples received | : 2 | | |
| No. of samples analysed | : 2 | | |

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

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

## *Signatories*

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

| *Signatories* | *Position* | *Accreditation Category* |
|---|---|---|
| Ben Felgendrejeris | Senior Acid Sulfate Soil Chemist | Brisbane Inorganics, Stafford, QLD |
| Mark Hallas | Senior Inorganic Chemist | Brisbane Inorganics, Stafford, QLD |
| Thomas Donovan | Senior Organic Chemist - PFAS | Brisbane Organics, Stafford, QLD |

## General Comments

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

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

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

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

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

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

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) per the NEPM (2013) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR. Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EP068: Where reported, Total Chlordane (sum) is the sum of the reported concentrations of cis-Chlordane and trans-Chlordane at or above the LOR.
- EP068: Where reported, Total OCP is the sum of the reported concentrations of all Organochlorine Pesticides at or above LOR.
- EP075(SIM): Where reported, Total Cresol is the sum of the reported concentrations of 2-Methylphenol and 3- & 4-Methylphenol at or above the LOR.
- EG005T-Total Metals by ICP-AES: Sample EB2123170-005 shows poor matrix spike recovery due to sample heterogeneity. Confirmed by visual inspection.

## Analytical Results

| Sub-Matrix: SOIL (Matrix: SOIL) | | | Sample ID | QC02_210903 | QC10_210903 | ---- | ---- | ---- |
|---|---|---|---|---|---|---|---|---|
| | | | Sampling date / time | 03-Sep-2021 00:00 | 03-Sep-2021 00:00 | ---- | ---- | ---- |
| Compound | CAS Number | LOR | Unit | EB2125660-001 | EB2125660-002 | -------- | -------- | -------- |
| | | | | Result | Result | ---- | ---- | ---- |
| **EA055: Moisture Content (Dried @ 105-110°C)** | | | | | | | | |
| Moisture Content | ---- | 1.0 | % | **6.0** | **10.9** | ---- | ---- | ---- |
| **EG005(ED093)T: Total Metals by ICP-AES** | | | | | | | | |
| Arsenic | 7440-38-2 | 5 | mg/kg | <5 | <5 | ---- | ---- | ---- |
| Cadmium | 7440-43-9 | 1 | mg/kg | <1 | <1 | ---- | ---- | ---- |
| Chromium | 7440-47-3 | 2 | mg/kg | **16** | **6** | ---- | ---- | ---- |
| Copper | 7440-50-8 | 5 | mg/kg | **14** | **74** | ---- | ---- | ---- |
| Lead | 7439-92-1 | 5 | mg/kg | **86** | **87** | ---- | ---- | ---- |
| Nickel | 7440-02-0 | 2 | mg/kg | **8** | **9** | ---- | ---- | ---- |
| Zinc | 7440-66-6 | 5 | mg/kg | **64** | **131** | ---- | ---- | ---- |
| **EG035T: Total Recoverable Mercury by FIMS** | | | | | | | | |
| Mercury | 7439-97-6 | 0.1 | mg/kg | <0.1 | <0.1 | ---- | ---- | ---- |
| **EP068A: Organochlorine Pesticides (OC)** | | | | | | | | |
| alpha-BHC | 319-84-6 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- |
| Hexachlorobenzene (HCB) | 118-74-1 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- |
| beta-BHC | 319-85-7 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- |
| gamma-BHC | 58-89-9 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- |
| delta-BHC | 319-86-8 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- |
| Heptachlor | 76-44-8 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- |
| Aldrin | 309-00-2 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- |
| Heptachlor epoxide | 1024-57-3 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- |
| ^ Total Chlordane (sum) | ---- | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- |
| trans-Chlordane | 5103-74-2 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- |
| alpha-Endosulfan | 959-98-8 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- |
| cis-Chlordane | 5103-71-9 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- |
| Dieldrin | 60-57-1 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- |
| 4.4`-DDE | 72-55-9 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- |
| Endrin | 72-20-8 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- |
| beta-Endosulfan | 33213-65-9 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- |
| ^ Endosulfan (sum) | 115-29-7 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- |
| 4.4`-DDD | 72-54-8 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- |
| Endrin aldehyde | 7421-93-4 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- |
| Endosulfan sulfate | 1031-07-8 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- |
| 4.4`-DDT | 50-29-3 | 0.2 | mg/kg | <0.2 | <0.2 | ---- | ---- | ---- |
| Endrin ketone | 53494-70-5 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- |

## Analytical Results

| Sub-Matrix: SOIL (Matrix: SOIL) | | | Sample ID | QC02_210903 | QC10_210903 | ---- | ---- | ---- |
|---|---|---|---|---|---|---|---|---|
| | | | Sampling date / time | 03-Sep-2021 00:00 | 03-Sep-2021 00:00 | ---- | ---- | ---- |
| Compound | CAS Number | LOR | Unit | EB2125660-001 | EB2125660-002 | -------- | -------- | -------- |
| | | | | Result | Result | ---- | ---- | ---- |
| **EP068A: Organochlorine Pesticides (OC) - Continued** | | | | | | | | |
| Methoxychlor | 72-43-5 | 0.2 | mg/kg | <0.2 | <0.2 | ---- | ---- | ---- |
| ^ Sum of Aldrin + Dieldrin | 309-00-2/60-57-1 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- |
| ^ Sum of DDD + DDE + DDT | 72-54-8/72-55-9/50-2 | 0.05 | mg/kg | <0.05 | <0.05 | ---- | ---- | ---- |
| **EP075(SIM)B: Polynuclear Aromatic Hydrocarbons** | | | | | | | | |
| Naphthalene | 91-20-3 | 0.5 | mg/kg | <0.5 | ---- | ---- | ---- | ---- |
| Acenaphthylene | 208-96-8 | 0.5 | mg/kg | <0.5 | ---- | ---- | ---- | ---- |
| Acenaphthene | 83-32-9 | 0.5 | mg/kg | <0.5 | ---- | ---- | ---- | ---- |
| Fluorene | 86-73-7 | 0.5 | mg/kg | <0.5 | ---- | ---- | ---- | ---- |
| Phenanthrene | 85-01-8 | 0.5 | mg/kg | <0.5 | ---- | ---- | ---- | ---- |
| Anthracene | 120-12-7 | 0.5 | mg/kg | <0.5 | ---- | ---- | ---- | ---- |
| Fluoranthene | 206-44-0 | 0.5 | mg/kg | <0.5 | ---- | ---- | ---- | ---- |
| Pyrene | 129-00-0 | 0.5 | mg/kg | <0.5 | ---- | ---- | ---- | ---- |
| Benz(a)anthracene | 56-55-3 | 0.5 | mg/kg | <0.5 | ---- | ---- | ---- | ---- |
| Chrysene | 218-01-9 | 0.5 | mg/kg | <0.5 | ---- | ---- | ---- | ---- |
| Benzo(b+j)fluoranthene | 205-99-2 205-82-3 | 0.5 | mg/kg | <0.5 | ---- | ---- | ---- | ---- |
| Benzo(k)fluoranthene | 207-08-9 | 0.5 | mg/kg | <0.5 | ---- | ---- | ---- | ---- |
| Benzo(a)pyrene | 50-32-8 | 0.5 | mg/kg | <0.5 | ---- | ---- | ---- | ---- |
| Indeno(1.2.3.cd)pyrene | 193-39-5 | 0.5 | mg/kg | <0.5 | ---- | ---- | ---- | ---- |
| Dibenz(a.h)anthracene | 53-70-3 | 0.5 | mg/kg | <0.5 | ---- | ---- | ---- | ---- |
| Benzo(g.h.i)perylene | 191-24-2 | 0.5 | mg/kg | <0.5 | ---- | ---- | ---- | ---- |
| ^ Sum of polycyclic aromatic hydrocarbons | ---- | 0.5 | mg/kg | <0.5 | ---- | ---- | ---- | ---- |
| ^ Benzo(a)pyrene TEQ (zero) | ---- | 0.5 | mg/kg | <0.5 | ---- | ---- | ---- | ---- |
| ^ Benzo(a)pyrene TEQ (half LOR) | ---- | 0.5 | mg/kg | **0.6** | ---- | ---- | ---- | ---- |
| ^ Benzo(a)pyrene TEQ (LOR) | ---- | 0.5 | mg/kg | **1.2** | ---- | ---- | ---- | ---- |
| **EP068S: Organochlorine Pesticide Surrogate** | | | | | | | | |
| Dibromo-DDE | 21655-73-2 | 0.05 | % | **116** | **115** | ---- | ---- | ---- |
| **EP068T: Organophosphorus Pesticide Surrogate** | | | | | | | | |
| DEF | 78-48-8 | 0.05 | % | **108** | **88.5** | ---- | ---- | ---- |
| **EP075(SIM)S: Phenolic Compound Surrogates** | | | | | | | | |
| Phenol-d6 | 13127-88-3 | 0.5 | % | **67.6** | ---- | ---- | ---- | ---- |
| 2-Chlorophenol-D4 | 93951-73-6 | 0.5 | % | **65.7** | ---- | ---- | ---- | ---- |
| 2.4.6-Tribromophenol | 118-79-6 | 0.5 | % | **48.1** | ---- | ---- | ---- | ---- |
| **EP075(SIM)T: PAH Surrogates** | | | | | | | | |

## Analytical Results

| Sub-Matrix: SOIL (Matrix: SOIL) | | | Sample ID | QC02_210903 | QC10_210903 | ---- | ---- | ---- |
|---|---|---|---|---|---|---|---|---|
| | | | Sampling date / time | 03-Sep-2021 00:00 | 03-Sep-2021 00:00 | ---- | ---- | ---- |
| Compound | CAS Number | LOR | Unit | EB2125660-001 | EB2125660-002 | -------- | -------- | -------- |
| | | | | Result | Result | ---- | ---- | ---- |
| **EP075(SIM)T: PAH Surrogates - Continued** | | | | | | | | |
| **2-Fluorobiphenyl** | 321-60-8 | 0.5 | % | **105** | **----** | **----** | **----** | **----** |
| **Anthracene-d10** | 1719-06-8 | 0.5 | % | **66.7** | **----** | **----** | **----** | **----** |
| **4-Terphenyl-d14** | 1718-51-0 | 0.5 | % | **101** | **----** | **----** | **----** | **----** |

## Surrogate Control Limits

Sub-Matrix: **SOIL**

| Compound | CAS Number | Recovery Limits (%) Low | Recovery Limits (%) High |
|---|---|---|---|
| **EP068S: Organochlorine Pesticide Surrogate** | | | |
| **Dibromo-DDE** | 21655-73-2 | 10 | 138 |
| **EP068T: Organophosphorus Pesticide Surrogate** | | | |
| **DEF** | 78-48-8 | 23 | 134 |
| **EP075(SIM)S: Phenolic Compound Surrogates** | | | |
| **Phenol-d6** | 13127-88-3 | 35 | 154 |
| **2-Chlorophenol-D4** | 93951-73-6 | 42 | 153 |
| **2.4.6-Tribromophenol** | 118-79-6 | 26 | 157 |
| **EP075(SIM)T: PAH Surrogates** | | | |
| **2-Fluorobiphenyl** | 321-60-8 | 34 | 156 |
| **Anthracene-d10** | 1719-06-8 | 37 | 153 |
| **4-Terphenyl-d14** | 1718-51-0 | 42 | 172 |

# QUALITY CONTROL REPORT

| | | | |
|---|---|---|---|
| **Work Order** | : **EB2125660** | Page | : 1 of 7 |
| Client | : **TETRA TECH COFFEY PTY LTD** | Laboratory | : Environmental Division Brisbane |
| Contact | : MR JEREMY WICKS | Contact | : Khaleda Ataei |
| Address | : LEVEL 5 12 CREEK STREET<br>BRISBANE QLD, AUSTRALIA 4000 | Address | : 2 Byth Street Stafford QLD Australia 4053 |
| Telephone | : ---- | Telephone | : + 61 2 8784 8555 |
| Project | : 754-BNEEN28781 DVA Greenslopes | Date Samples Received | : 09-Sep-2021 |
| Order number | : ---- | Date Analysis Commenced | : 14-Sep-2021 |
| C-O-C number | : ---- | Issue Date | : 17-Sep-2021 |
| Sampler | : ---- | | |
| Site | : 114 Newdegate Street Greenslopes | | |
| Quote number | : EN/222 | | |
| No. of samples received | : 2 | | |
| No. of samples analysed | : 2 | | |

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

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

This Quality Control Report contains the following information:

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

## *Signatories*

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

| *Signatories* | *Position* | *Accreditation Category* |
|---|---|---|
| Ben Felgendrejeris | Senior Acid Sulfate Soil Chemist | Brisbane Inorganics, Stafford, QLD |
| Mark Hallas | Senior Inorganic Chemist | Brisbane Inorganics, Stafford, QLD |
| Thomas Donovan | Senior Organic Chemist - PFAS | Brisbane Organics, Stafford, QLD |

## General Comments

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

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

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

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

## Laboratory Duplicate (DUP) Report

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

Sub-Matrix: **SOIL**

| | | | | Laboratory Duplicate (DUP) Report | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory sample ID | Sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) | Acceptable RPD (%) |
| **EG005(ED093)T: Total Metals by ICP-AES (QC Lot: 3900037)** | | | | | | | | | |
| EB2123170-004 | Anonymous | EG005T: Cadmium | 7440-43-9 | 1 | mg/kg | 2 | 2 | 0.0 | No Limit |
| | | EG005T: Chromium | 7440-47-3 | 2 | mg/kg | 14 | 16 | 15.5 | No Limit |
| | | EG005T: Nickel | 7440-02-0 | 2 | mg/kg | 20 | 22 | 10.6 | 0% - 50% |
| | | EG005T: Arsenic | 7440-38-2 | 5 | mg/kg | <5 | <5 | 0.0 | No Limit |
| | | EG005T: Copper | 7440-50-8 | 5 | mg/kg | 53 | 66 | 21.0 | 0% - 50% |
| | | EG005T: Lead | 7439-92-1 | 5 | mg/kg | 61 | 76 | 21.4 | 0% - 50% |
| | | EG005T: Zinc | 7440-66-6 | 5 | mg/kg | 262 | 270 | 2.9 | 0% - 20% |
| EB2125698-004 | Anonymous | EG005T: Cadmium | 7440-43-9 | 1 | mg/kg | <1 | <1 | 0.0 | No Limit |
| | | EG005T: Chromium | 7440-47-3 | 2 | mg/kg | 14 | 22 | 43.0 | 0% - 50% |
| | | EG005T: Nickel | 7440-02-0 | 2 | mg/kg | 11 | 14 | 26.6 | No Limit |
| | | EG005T: Arsenic | 7440-38-2 | 5 | mg/kg | 6 | 6 | 0.0 | No Limit |
| | | EG005T: Copper | 7440-50-8 | 5 | mg/kg | 11 | 16 | 38.4 | No Limit |
| | | EG005T: Lead | 7439-92-1 | 5 | mg/kg | 13 | 19 | 42.0 | No Limit |
| | | EG005T: Zinc | 7440-66-6 | 5 | mg/kg | 40 | 54 | 31.0 | 0% - 50% |
| **EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 3900746)** | | | | | | | | | |
| EB2125660-001 | QC02_210903 | EA055: Moisture Content | ---- | 0.1 | % | 6.0 | 5.9 | 2.8 | No Limit |
| EB2125912-002 | Anonymous | EA055: Moisture Content | ---- | 0.1 | % | 15.1 | 15.7 | 4.2 | 0% - 20% |
| **EG035T: Total Recoverable Mercury by FIMS (QC Lot: 3900038)** | | | | | | | | | |
| EB2123170-004 | Anonymous | EG035T: Mercury | 7439-97-6 | 0.1 | mg/kg | <0.1 | <0.1 | 0.0 | No Limit |
| EB2125698-004 | Anonymous | EG035T: Mercury | 7439-97-6 | 0.1 | mg/kg | <0.1 | 0.1 | 0.0 | No Limit |
| **EP068A: Organochlorine Pesticides (OC) (QC Lot: 3900123)** | | | | | | | | | |
| EB2125660-001 | QC02_210903 | EP068: alpha-BHC | 319-84-6 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Hexachlorobenzene (HCB) | 118-74-1 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |

Sub-Matrix: **SOIL**

| Laboratory sample ID | Sample ID | Method: Compound | CAS Number | Laboratory Duplicate (DUP) Report LOR | Unit | Original Result | Duplicate Result | RPD (%) | Acceptable RPD (%) |
|---|---|---|---|---|---|---|---|---|---|
| **EP068A: Organochlorine Pesticides (OC) (QC Lot: 3900123) - continued** | | | | | | | | | |
| EB2125660-001 | QC02_210903 | EP068: beta-BHC | 319-85-7 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: gamma-BHC | 58-89-9 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: delta-BHC | 319-86-8 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Heptachlor | 76-44-8 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Aldrin | 309-00-2 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Heptachlor epoxide | 1024-57-3 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Total Chlordane (sum) | ---- | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: trans-Chlordane | 5103-74-2 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: alpha-Endosulfan | 959-98-8 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: cis-Chlordane | 5103-71-9 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Dieldrin | 60-57-1 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: 4.4`-DDE | 72-55-9 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Endrin | 72-20-8 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: beta-Endosulfan | 33213-65-9 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Endosulfan (sum) | 115-29-7 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: 4.4`-DDD | 72-54-8 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Endrin aldehyde | 7421-93-4 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Endosulfan sulfate | 1031-07-8 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Endrin ketone | 53494-70-5 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Sum of DDD + DDE + DDT | 72-54-8/72-55-9/50-2 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Sum of Aldrin + Dieldrin | 309-00-2/60-57-1 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: 4.4`-DDT | 50-29-3 | 0.2 | mg/kg | <0.2 | <0.2 | 0.0 | No Limit |
| | | EP068: Methoxychlor | 72-43-5 | 0.2 | mg/kg | <0.2 | <0.2 | 0.0 | No Limit |
| **EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 3900121)** | | | | | | | | | |
| EB2125627-041 | Anonymous | EP075(SIM): Naphthalene | 91-20-3 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Acenaphthylene | 208-96-8 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Acenaphthene | 83-32-9 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Fluorene | 86-73-7 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Phenanthrene | 85-01-8 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Anthracene | 120-12-7 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Fluoranthene | 206-44-0 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Pyrene | 129-00-0 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Benz(a)anthracene | 56-55-3 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Chrysene | 218-01-9 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Benzo(b+j)fluoranthene | 205-99-2 205-82-3 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Benzo(k)fluoranthene | 207-08-9 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Benzo(a)pyrene | 50-32-8 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |

Sub-Matrix: **SOIL**

| Laboratory sample ID | Sample ID | Method: Compound | CAS Number | Laboratory Duplicate (DUP) Report LOR | Unit | Original Result | Duplicate Result | RPD (%) | Acceptable RPD (%) |
|---|---|---|---|---|---|---|---|---|---|
| **EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 3900121) - continued** | | | | | | | | | |
| EB2125627-041 | Anonymous | EP075(SIM): Indeno(1.2.3.cd)pyrene | 193-39-5 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Dibenz(a.h)anthracene | 53-70-3 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Benzo(g.h.i)perylene | 191-24-2 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Benzo(a)pyrene TEQ (zero) | ---- | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| EB2125627-051 | Anonymous | EP075(SIM): Naphthalene | 91-20-3 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Acenaphthylene | 208-96-8 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Acenaphthene | 83-32-9 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Fluorene | 86-73-7 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Phenanthrene | 85-01-8 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Anthracene | 120-12-7 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Fluoranthene | 206-44-0 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Pyrene | 129-00-0 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Benz(a)anthracene | 56-55-3 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Chrysene | 218-01-9 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Benzo(b+j)fluoranthene | 205-99-2<br>205-82-3 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Benzo(k)fluoranthene | 207-08-9 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Benzo(a)pyrene | 50-32-8 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Indeno(1.2.3.cd)pyrene | 193-39-5 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Dibenz(a.h)anthracene | 53-70-3 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Benzo(g.h.i)perylene | 191-24-2 | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |
| | | EP075(SIM): Benzo(a)pyrene TEQ (zero) | ---- | 0.5 | mg/kg | <0.5 | <0.5 | 0.0 | No Limit |

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

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

Sub-Matrix: **SOIL**

| | | | | Method Blank (MB) Report | Laboratory Control Spike (LCS) Report | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Spike | Spike Recovery (%) | Acceptable Limits (%) | |
| Method: Compound | CAS Number | LOR | Unit | Result | Concentration | LCS | Low | High |
| **EG005(ED093)T: Total Metals by ICP-AES (QCLot: 3900037)** | | | | | | | | |
| EG005T: Arsenic | 7440-38-2 | 5 | mg/kg | <5 | 83.4 mg/kg | 103 | 84.0 | 123 |
| EG005T: Cadmium | 7440-43-9 | 1 | mg/kg | <1 | ---- | ---- | ---- | ---- |
| EG005T: Chromium | 7440-47-3 | 2 | mg/kg | <2 | 14.1 mg/kg | 92.4 | 83.0 | 125 |
| EG005T: Copper | 7440-50-8 | 5 | mg/kg | <5 | 50 mg/kg | 88.9 | 86.0 | 122 |
| EG005T: Lead | 7439-92-1 | 5 | mg/kg | <5 | 55.4 mg/kg | 97.2 | 84.0 | 119 |
| EG005T: Nickel | 7440-02-0 | 2 | mg/kg | <2 | 11.8 mg/kg | 92.6 | 81.5 | 118 |
| EG005T: Zinc | 7440-66-6 | 5 | mg/kg | <5 | 148.7 mg/kg | 92.8 | 80.0 | 120 |
| **EG035T: Total Recoverable Mercury by FIMS (QCLot: 3900038)** | | | | | | | | |
| EG035T: Mercury | 7439-97-6 | 0.1 | mg/kg | <0.1 | 0.087 mg/kg | 97.5 | 70.0 | 125 |
| **EP068A: Organochlorine Pesticides (OC) (QCLot: 3900123)** | | | | | | | | |
| EP068: alpha-BHC | 319-84-6 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 110 | 72.8 | 127 |
| EP068: Hexachlorobenzene (HCB) | 118-74-1 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 110 | 71.0 | 127 |
| EP068: beta-BHC | 319-85-7 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 106 | 67.5 | 126 |
| EP068: gamma-BHC | 58-89-9 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 109 | 72.7 | 127 |
| EP068: delta-BHC | 319-86-8 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 109 | 70.6 | 122 |
| EP068: Heptachlor | 76-44-8 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 112 | 64.8 | 127 |
| EP068: Aldrin | 309-00-2 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 110 | 72.4 | 122 |
| EP068: Heptachlor epoxide | 1024-57-3 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 109 | 67.4 | 125 |
| EP068: Total Chlordane (sum) | ---- | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| EP068: trans-Chlordane | 5103-74-2 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 110 | 65.6 | 124 |
| EP068: alpha-Endosulfan | 959-98-8 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 100 | 70.4 | 122 |
| EP068: cis-Chlordane | 5103-71-9 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 110 | 65.6 | 125 |
| EP068: Dieldrin | 60-57-1 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 108 | 69.1 | 124 |
| EP068: 4.4`-DDE | 72-55-9 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 106 | 72.4 | 125 |
| EP068: Endrin | 72-20-8 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 112 | 63.2 | 127 |
| EP068: beta-Endosulfan | 33213-65-9 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 104 | 69.7 | 120 |
| EP068: Endosulfan (sum) | 115-29-7 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| EP068: 4.4`-DDD | 72-54-8 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 102 | 61.2 | 124 |
| EP068: Endrin aldehyde | 7421-93-4 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 102 | 55.5 | 125 |
| EP068: Endosulfan sulfate | 1031-07-8 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 105 | 57.1 | 117 |
| EP068: 4.4`-DDT | 50-29-3 | 0.2 | mg/kg | <0.2 | 0.5 mg/kg | 110 | 51.9 | 125 |
| EP068: Endrin ketone | 53494-70-5 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 99.5 | 46.5 | 122 |
| EP068: Methoxychlor | 72-43-5 | 0.2 | mg/kg | <0.2 | 0.5 mg/kg | 101 | 34.0 | 130 |

Sub-Matrix: **SOIL**

| Method: Compound | CAS Number | LOR | Unit | Method Blank (MB) Report: Result | Laboratory Control Spike (LCS) Report: Spike Concentration | Spike Recovery (%): LCS | Acceptable Limits (%): Low | Acceptable Limits (%): High |
|---|---|---|---|---|---|---|---|---|
| **EP068A: Organochlorine Pesticides (OC) (QCLot: 3900123) - continued** | | | | | | | | |
| EP068: Sum of DDD + DDE + DDT | 72-54-8/72-5 5-9/50-2 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| EP068: Sum of Aldrin + Dieldrin | 309-00-2/60-57-1 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| **EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 3900121)** | | | | | | | | |
| EP075(SIM): Naphthalene | 91-20-3 | 0.5 | mg/kg | <0.5 | 1.5 mg/kg | 103 | 72.6 | 133 |
| EP075(SIM): Acenaphthylene | 208-96-8 | 0.5 | mg/kg | <0.5 | 1.5 mg/kg | 111 | 63.2 | 144 |
| EP075(SIM): Acenaphthene | 83-32-9 | 0.5 | mg/kg | <0.5 | 1.5 mg/kg | 112 | 73.0 | 117 |
| EP075(SIM): Fluorene | 86-73-7 | 0.5 | mg/kg | <0.5 | 1.5 mg/kg | 121 | 76.2 | 134 |
| EP075(SIM): Phenanthrene | 85-01-8 | 0.5 | mg/kg | <0.5 | 1.5 mg/kg | 107 | 71.8 | 137 |
| EP075(SIM): Anthracene | 120-12-7 | 0.5 | mg/kg | <0.5 | 1.5 mg/kg | 98.4 | 77.1 | 143 |
| EP075(SIM): Fluoranthene | 206-44-0 | 0.5 | mg/kg | <0.5 | 1.5 mg/kg | 102 | 74.1 | 140 |
| EP075(SIM): Pyrene | 129-00-0 | 0.5 | mg/kg | <0.5 | 1.5 mg/kg | 101 | 72.0 | 139 |
| EP075(SIM): Benz(a)anthracene | 56-55-3 | 0.5 | mg/kg | <0.5 | 1.5 mg/kg | 109 | 58.0 | 145 |
| EP075(SIM): Chrysene | 218-01-9 | 0.5 | mg/kg | <0.5 | 1.5 mg/kg | 96.5 | 63.0 | 147 |
| EP075(SIM): Benzo(b+j)fluoranthene | 205-99-2 205-82-3 | 0.5 | mg/kg | <0.5 | 1.5 mg/kg | 95.7 | 70.5 | 142 |
| EP075(SIM): Benzo(k)fluoranthene | 207-08-9 | 0.5 | mg/kg | <0.5 | 1.5 mg/kg | 111 | 75.5 | 138 |
| EP075(SIM): Benzo(a)pyrene | 50-32-8 | 0.5 | mg/kg | <0.5 | 1.5 mg/kg | 108 | 68.5 | 140 |
| EP075(SIM): Indeno(1.2.3.cd)pyrene | 193-39-5 | 0.5 | mg/kg | <0.5 | 1.5 mg/kg | 87.1 | 58.4 | 143 |
| EP075(SIM): Dibenz(a.h)anthracene | 53-70-3 | 0.5 | mg/kg | <0.5 | 1.5 mg/kg | 86.4 | 52.1 | 149 |
| EP075(SIM): Benzo(g.h.i)perylene | 191-24-2 | 0.5 | mg/kg | <0.5 | 1.5 mg/kg | 85.5 | 64.6 | 140 |

## Matrix Spike (MS) Report

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

Sub-Matrix: **SOIL**

| Laboratory sample ID | Sample ID | Method: Compound | CAS Number | Matrix Spike (MS) Report: Spike Concentration | SpikeRecovery(%): MS | Acceptable Limits (%): Low | Acceptable Limits (%): High |
|---|---|---|---|---|---|---|---|
| **EG005(ED093)T: Total Metals by ICP-AES (QCLot: 3900037)** | | | | | | | |
| EB2123170-005 | Anonymous | EG005T: Arsenic | 7440-38-2 | 100 mg/kg | # 66.1 | 70.0 | 130 |
| | | EG005T: Cadmium | 7440-43-9 | 25 mg/kg | 87.6 | 70.0 | 130 |
| | | EG005T: Chromium | 7440-47-3 | 100 mg/kg | 84.4 | 70.0 | 130 |
| | | EG005T: Copper | 7440-50-8 | 100 mg/kg | 86.0 | 70.0 | 130 |
| | | EG005T: Lead | 7439-92-1 | 100 mg/kg | 70.4 | 70.0 | 130 |
| | | EG005T: Nickel | 7440-02-0 | 100 mg/kg | 88.2 | 70.0 | 130 |
| | | EG005T: Zinc | 7440-66-6 | 100 mg/kg | 70.2 | 70.0 | 130 |

Sub-Matrix: **SOIL**

| Laboratory sample ID | Sample ID | Method: Compound | CAS Number | Matrix Spike (MS) Report: Spike Concentration | SpikeRecovery(%) MS | Acceptable Limits (%) Low | High |
|---|---|---|---|---|---|---|---|
| **EG035T: Total Recoverable Mercury by FIMS (QCLot: 3900038)** | | | | | | | |
| EB2123170-005 | Anonymous | EG035T: Mercury | 7439-97-6 | 0.5 mg/kg | 98.9 | 70.0 | 130 |
| **EP068A: Organochlorine Pesticides (OC) (QCLot: 3900123)** | | | | | | | |
| EB2125660-002 | QC10_210903 | EP068: gamma-BHC | 58-89-9 | 0.5 mg/kg | 115 | 70.0 | 136 |
| | | EP068: Heptachlor | 76-44-8 | 0.5 mg/kg | 118 | 65.0 | 130 |
| | | EP068: Aldrin | 309-00-2 | 0.5 mg/kg | 115 | 70.0 | 130 |
| | | EP068: Dieldrin | 60-57-1 | 0.5 mg/kg | 112 | 67.0 | 129 |
| | | EP068: Endrin | 72-20-8 | 0.5 mg/kg | 113 | 60.0 | 137 |
| | | EP068: 4.4`-DDT | 50-29-3 | 0.5 mg/kg | 124 | 70.0 | 130 |
| **EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 3900121)** | | | | | | | |
| EB2125627-042 | Anonymous | EP075(SIM): Acenaphthene | 83-32-9 | 1.5 mg/kg | 116 | 70.0 | 130 |
| | | EP075(SIM): Pyrene | 129-00-0 | 1.5 mg/kg | 103 | 70.0 | 130 |

# QA/QC Compliance Assessment to assist with Quality Review

| | | | |
|---|---|---|---|
| **Work Order** | : **EB2125660** | Page | : 1 of 4 |
| Client | : **TETRA TECH COFFEY PTY LTD** | Laboratory | : Environmental Division Brisbane |
| Contact | : MR JEREMY WICKS | Telephone | : + 61 2 8784 8555 |
| Project | : 754-BNEEN28781 DVA Greenslopes | Date Samples Received | : 09-Sep-2021 |
| Site | : 114 Newdegate Street Greenslopes | Issue Date | : 17-Sep-2021 |
| Sampler | : ---- | No. of samples received | : 2 |
| Order number | : ---- | No. of samples analysed | : 2 |

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

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

## *Summary of Outliers*

### *Outliers : Quality Control Samples*

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

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

### *Outliers : Analysis Holding Time Compliance*

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

### *Outliers : Frequency of Quality Control Samples*

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

## Outliers : Quality Control Samples

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

Matrix: **SOIL**

| Compound Group Name | Laboratory Sample ID | Client Sample ID | Analyte | CAS Number | Data | Limits | Comment |
|---|---|---|---|---|---|---|---|
| **Matrix Spike (MS) Recoveries** | | | | | | | |
| EG005(ED093)T: Total Metals by ICP-AES | EB2123170--005 | Anonymous | **Arsenic** | 7440-38-2 | 66.1 % | 70.0-130% | **Recovery less than lower data quality objective** |

# Analysis Holding Time Compliance

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

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

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

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

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

| *Method* / *Container / Client Sample ID(s)* | | *Sample Date* | *Extraction / Preparation* | | | *Analysis* | | |
|---|---|---|---|---|---|---|---|---|
| | | | *Date extracted* | *Due for extraction* | *Evaluation* | *Date analysed* | *Due for analysis* | *Evaluation* |
| **EA055: Moisture Content (Dried @ 105-110°C)** | | | | | | | | |
| **Soil Glass Jar - Unpreserved (EA055)** | | | | | | | | |
| QC02_210903, | QC10_210903 | **03-Sep-2021** | **----** | ---- | ---- | **14-Sep-2021** | 17-Sep-2021 | ✓ |
| **EG005(ED093)T: Total Metals by ICP-AES** | | | | | | | | |
| **Soil Glass Jar - Unpreserved (EG005T)** | | | | | | | | |
| QC02_210903, | QC10_210903 | **03-Sep-2021** | **14-Sep-2021** | 02-Mar-2022 | ✓ | **16-Sep-2021** | 02-Mar-2022 | ✓ |
| **EG035T: Total Recoverable Mercury by FIMS** | | | | | | | | |
| **Soil Glass Jar - Unpreserved (EG035T)** | | | | | | | | |
| QC02_210903, | QC10_210903 | **03-Sep-2021** | **14-Sep-2021** | 01-Oct-2021 | ✓ | **16-Sep-2021** | 01-Oct-2021 | ✓ |
| **EP068A: Organochlorine Pesticides (OC)** | | | | | | | | |
| **Soil Glass Jar - Unpreserved (EP068)** | | | | | | | | |
| QC02_210903, | QC10_210903 | **03-Sep-2021** | **14-Sep-2021** | 17-Sep-2021 | ✓ | **15-Sep-2021** | 24-Oct-2021 | ✓ |
| **EP075(SIM)B: Polynuclear Aromatic Hydrocarbons** | | | | | | | | |
| **Soil Glass Jar - Unpreserved (EP075(SIM))** | | | | | | | | |
| QC02_210903 | | **03-Sep-2021** | **14-Sep-2021** | 17-Sep-2021 | ✓ | **15-Sep-2021** | 24-Oct-2021 | ✓ |

# Quality Control Parameter Frequency Compliance

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

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

| Quality Control Sample Type | | Count | | Rate (%) | | | Quality Control Specification |
|---|---|---|---|---|---|---|---|
| *Analytical Methods* | *Method* | *QC* | *Regular* | ***Actual*** | ***Expected*** | *Evaluation* | |
| Laboratory Duplicates (DUP) | | | | | | | |
| Moisture Content | EA055 | 2 | 17 | **11.76** | **10.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| PAH/Phenols (SIM) | EP075(SIM) | 2 | 18 | **11.11** | **10.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Pesticides by GCMS | EP068 | 1 | 2 | **50.00** | **10.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS | EG035T | 2 | 20 | **10.00** | **10.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES | EG005T | 2 | 20 | **10.00** | **10.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Laboratory Control Samples (LCS) | | | | | | | |
| PAH/Phenols (SIM) | EP075(SIM) | 1 | 18 | **5.56** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Pesticides by GCMS | EP068 | 1 | 2 | **50.00** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS | EG035T | 1 | 20 | **5.00** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES | EG005T | 1 | 20 | **5.00** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Method Blanks (MB) | | | | | | | |
| PAH/Phenols (SIM) | EP075(SIM) | 1 | 18 | **5.56** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Pesticides by GCMS | EP068 | 1 | 2 | **50.00** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS | EG035T | 1 | 20 | **5.00** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES | EG005T | 1 | 20 | **5.00** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Matrix Spikes (MS) | | | | | | | |
| PAH/Phenols (SIM) | EP075(SIM) | 1 | 18 | **5.56** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Pesticides by GCMS | EP068 | 1 | 2 | **50.00** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS | EG035T | 1 | 20 | **5.00** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES | EG005T | 1 | 20 | **5.00** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |

## Brief Method Summaries

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

| Analytical Methods | Method | Matrix | Method Descriptions |
|---|---|---|---|
| Moisture Content | EA055 | SOIL | In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3). |
| Total Metals by ICP-AES | EG005T | SOIL | In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM Schedule B(3) |
| Total Mercury by FIMS | EG035T | SOIL | In house: Referenced to AS 3550, APHA 3112 Hg - B (Flow-injection (SnCl2) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM Schedule B(3) |
| Pesticides by GCMS | EP068 | SOIL | In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3). |
| PAH/Phenols (SIM) | EP075(SIM) | SOIL | In house: Referenced to USEPA SW 846 - 8270. Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM Schedule B(3) |

| Preparation Methods | Method | Matrix | Method Descriptions |
|---|---|---|---|
| Hot Block Digest for metals in soils sediments and sludges | EN69 | SOIL | In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM Schedule B(3). |
| Tumbler Extraction of Solids | ORG17 | SOIL | In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis. |

ALS Environmental

# SAMPLE RECEIPT NOTIFICATION (SRN)

**Work Order** : **EB2125660**

| | | | |
|---|---|---|---|
| Client | : **TETRA TECH COFFEY PTY LTD** | Laboratory | : Environmental Division Brisbane |
| Contact | : MR JEREMY WICKS | Contact | : Khaleda Ataei |
| Address | : LEVEL 5 12 CREEK STREET BRISBANE QLD, AUSTRALIA 4000 | Address | : 2 Byth Street Stafford QLD Australia 4053 |
| E-mail | : Jeremy.Wicks@coffey.com | E-mail | : khaleda.ataei@alsglobal.com |
| Telephone | : ---- | Telephone | : + 61 2 8784 8555 |
| Facsimile | : ---- | Facsimile | : +61-7-3243 7218 |
| Project | : 754-BNEEN28781 DVA Greenslopes | Page | : 1 of 2 |
| Order number | : ---- | Quote number | : ES2018COFENV0007 (EN/222) |
| C-O-C number | : ---- | QC Level | : NEPM 2013 B3 & ALS QC Standard |
| Site | : 114 Newdegate Street Greenslopes | | |
| Sampler | : | | |

## Dates

| | | | |
|---|---|---|---|
| Date Samples Received | : 09-Sep-2021 15:04 | Issue Date | : 09-Sep-2021 |
| Client Requested Due Date | : 17-Sep-2021 | Scheduled Reporting Date | : **17-Sep-2021** |

## Delivery Details

| | | | |
|---|---|---|---|
| Mode of Delivery | : Carrier | Security Seal | : Intact. |
| No. of coolers/boxes | : 1 | Temperature | : 14.6°C - Ice Bricks present |
| Receipt Detail | : MEDIUM HARD ESKY | No. of samples received / analysed | : 2 / 2 |

## General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- Discounted Package Prices apply only when specific ALS Group Codes ('W', 'S', 'NT' suites) are referenced on COCs.
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Analysis will be conducted by ALS Environmental, Brisbane, NATA accreditation no. 825, Site No. 818 (Micro site no. 18958).
- **Breaches in recommended extraction / analysis holding times (if any) are displayed overleaf in the Proactive Holding Time Report table.**
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**

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

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

- **No sample container / preservation non-compliance exists.**

## Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **SOIL**

| Laboratory sample ID | Sampling date / time | Sample ID | SOIL - EA055-103 Moisture Content | SOIL - EP068A (solids) Organochlorine Pesticides by GCMS | SOIL - EP075 SIM PAH only SIM - PAH only | SOIL - S-02 8 Metals (incl. Digestion) |
|---|---|---|---|---|---|---|
| EB2125660-001 | 03-Sep-2021 00:00 | QC02_210903 | ✓ | ✓ | ✓ | ✓ |
| EB2125660-002 | 03-Sep-2021 00:00 | QC10_210903 | ✓ | ✓ | | ✓ |

## Proactive Holding Time Report

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

## Requested Deliverables

**JEREMY WICKS**

| | | |
|---|---|---|
| - *AU Certificate of Analysis - NATA (COA) | Email | Jeremy.Wicks@coffey.com |
| - *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) | Email | Jeremy.Wicks@coffey.com |
| - *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) | Email | Jeremy.Wicks@coffey.com |
| - A4 - AU Sample Receipt Notification - Environmental HT (SRN) | Email | Jeremy.Wicks@coffey.com |
| - A4 - AU Tax Invoice (INV) | Email | Jeremy.Wicks@coffey.com |
| - Chain of Custody (CoC) (COC) | Email | Jeremy.Wicks@coffey.com |
| - EDI Format - ENMRG (ENMRG) | Email | Jeremy.Wicks@coffey.com |
| - EDI Format - ESDAT (ESDAT) | Email | Jeremy.Wicks@coffey.com |

**MICHELLE MORRISON**

| | | |
|---|---|---|
| - A4 - AU Tax Invoice (INV) | Email | michelle.morrison@coffey.com |

Rec: 9/9/21 1504

| | |
|---|---|
| Project ID: | 754-BNEEN282781 DVA Greenslopes |
| Site: | 114 Newdegate Street Greenslopes |

| | | | | |
|---|---|---|---|---|
| Contact: | Jeremy Wicks | Quote No: | Coffey | Comments: |
| Office: | 12 Creek Street Brisbane QLD 4000 | Results Required: | 9/13/2021 | QC02_210903 and QC10_210903 to be sent to ALS for Analysis. |
| Email: | jeremy.wicks@coffey.com | Report Format: | Email | Wash soil material from concrete core prior to crushing/analysis |
| Phone: | 0435 856 733 | Turn Around | Standard turnaround | |

| SAMPLE INFORMATION | | | | | CONTAINER | | ANALYTICAL REQUIREMENTS | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LAB ID | Sample ID | Matrix Type S: Soil W: Water | Date | Time | Type / Code | Total Bottles | HM 8-Metals As, Cd, Cr, Cu, Pb, Ni, Zn, | OCP | PAH | Asbestos ID in Soil Presence/absence | Asbestos ID in Soil (NEPM/WA Guidelines) | Concrete Crush / Separation | |
| | BH01_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | |
| | BH01_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | | | |
| | BH01_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | | | |
| | BH02_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | |
| | BH02_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | | | |
| | BH02_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | | | |
| | BH03_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | |
| | BH03_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | | | |
| | BH03_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | | | |
| | BH04_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | |
| | BH04_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | | | |
| | BH04_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | | | |
| | BH05_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | |
| | BH05_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | | | |
| | BH05_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | | | |
| | BH06_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | |
| | BH06_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | x | x | | | |
| | BH06_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | |
| | BH07_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | x | | | |
| | BH07_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | |
| | BH07_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | | | |
| | BH08_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | |
| | BH08_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | |
| | BH08_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | | | | | | | |
| | BH12_0.1 | Soil | 08-Sep-21 | | jar/asb bag | 2 | x | x | | x | | | |
| | BH13_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | x | | | |
| | BH14_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | x | | | |
| | BH14_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | |
| | BH14_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | |
| | BH15_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | |
| | BH15_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | |
| | BH15_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | |
| | BH16_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | x | | | |
| | BH16_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | |
| | BH16_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | |
| | BH17_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | x | | | |
| | BH17_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | |
| | BH17_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | x | | | | |
| | BH18_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | x | | | |
| | BH18_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | |
| | BH18_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | x | | | | |
| | BH19_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | x | | | |
| | BH19_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | x | | | | |
| | BH19_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | |
| | BH20_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | x | | | |
| | BH20_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | |
| | BH20_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | |
| | BH21_0.1 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | |
| | BH21_0.3 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | |
| | BH21_0.5 | Soil | 03-Sep-21 | | jar/asb bag | 2 | x | x | | | | | |
| | Slag-1 | Soil | 03-Sep-21 | | jar | 1 | x | | x | | | | |
| | Slag-2 | Soil | 03-Sep-21 | | jar | 1 | x | | x | | | | |
| | BH01_Concrete | Concrete | 03-Sep-21 | | Bag | 1 | | x | | | | x | |
| | BH02_Concrete | Concrete | 03-Sep-21 | | Bag | 1 | | | | | | | |
| | BH03_Concrete | Concrete | 03-Sep-21 | | Bag | 1 | | x | | | | x | |
| | BH04_Concrete | Concrete | 03-Sep-21 | | Bag | 1 | | | | | | | |
| | BH05_Concrete | Concrete | 03-Sep-21 | | Bag | 1 | | x | | | | x | |
| | BH06_Concrete | Concrete | 03-Sep-21 | | Bag | 1 | | x | | | | x | |
| | BH07_Concrete | Concrete | 03-Sep-21 | | Bag | 1 | | x | | | | x | |
| | BH08_Concrete | Concrete | 03-Sep-21 | | Bag | 1 | | x | | | | x | |
| | BH09_Concrete | Concrete | 03-Sep-21 | | Bag | 1 | | x | | | | x | |
| | BH10_Concrete | Concrete | 03-Sep-21 | | Bag | 1 | | x | | | | x | |
| | BH11_Concrete | Concrete | 03-Sep-21 | | Bag | 1 | | x | | | | x | |
| | BH21_Concrete | Concrete | 03-Sep-21 | | Bag | 1 | | x | | | | x | |
| | QC01_210903 | Soil | 03-Sep-21 | | Jar | 1 | x | x | x | | | | |
| | QC02_210903 | Soil | 03-Sep-21 | | Jar | 1 | x | x | x | | | | |
| | QC03_210903 | Soil | 03-Sep-21 | | Jar | 1 | | | | | | | |
| | QC04_210903 | Soil | 03-Sep-21 | | Jar | 1 | | | | | | | |
| | QC05_210903 | Soil | 03-Sep-21 | | Jar | 1 | | | | | | | |
| | QC06_210903 | Soil | 03-Sep-21 | | Jar | 1 | | | | | | | |
| | QC07_210903 | Soil | 03-Sep-21 | | Jar | 1 | | | | | | | |
| | QC08_210903 | Soil | 03-Sep-21 | | Jar | 1 | | | | | | | |
| | QC09_210903 | Soil | 03-Sep-21 | | Jar | 1 | x | x | | | | | |
| | QC10_210903 | Soil | 03-Sep-21 | | Jar | 1 | x | x | | | | | |
| | QC11_210903 | Soil | 03-Sep-21 | | Jar | 1 | | | | | | | |
| | QC12_210903 | Soil | 03-Sep-21 | | Jar | 1 | | | | | | | |
| | QC13_210903 | Water | 03-Sep-21 | | V/AG/P | 4 | x | x | x | | | | |
| | QC14_210903 | Water | 03-Sep-21 | | V/AG/P | 4 | x | x | x | | | | |
| | trip blank | Soil | | | Jar | 1 | x | x | x | | | | |
| TOTAL BOTTLES | | | | | | | | | | | | | |

Environmental Division
Brisbane
Work Order Reference
EB2125660

Telephone : +61-7-3243 7222

6/9/21 3:51pm
Sarah K

822538

# CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| **Work Order** | : **EB2133163** | Page | : 1 of 4 |
| Client | : **TETRA TECH COFFEY PTY LTD** | Laboratory | : Environmental Division Brisbane |
| Contact | : MR MICHAEL PAGE | Contact | : Khaleda Ataei |
| Address | : LEVEL 5 12 CREEK STREET<br>BRISBANE QLD, AUSTRALIA 4000 | Address | : 2 Byth Street Stafford QLD Australia 4053 |
| Telephone | : +61 07 3239 9500 | Telephone | : + 61 2 8784 8555 |
| Project | : 754-BNEEN 234351 DVA GREENSLOPES | Date Samples Received | : 17-Nov-2021 16:05 |
| Order number | : ---- | Date Analysis Commenced | : 18-Nov-2021 |
| C-O-C number | : ---- | Issue Date | : 23-Nov-2021 17:02 |
| Sampler | : ---- | | |
| Site | : | | |
| Quote number | : EN/222 | | |
| No. of samples received | : 1 | | |
| No. of samples analysed | : 1 | | |

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

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

## *Signatories*

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

| *Signatories* | *Position* | *Accreditation Category* |
|---|---|---|
| Matt Frost | Assistant Laboratory Manager | Brisbane Inorganics, Stafford, QLD |
| Matt Frost | Assistant Laboratory Manager | Brisbane Organics, Stafford, QLD |

## General Comments

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

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

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

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

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

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

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EP068: Where reported, Total Chlordane (sum) is the sum of the reported concentrations of cis-Chlordane and trans-Chlordane at or above the LOR.
- EP068: Where reported, Total OCP is the sum of the reported concentrations of all Organochlorine Pesticides at or above LOR.

## Analytical Results

| Sub-Matrix: SOIL (Matrix: SOIL) | | | Sample ID | QC02 | ---- | ---- | ---- | ---- |
|---|---|---|---|---|---|---|---|---|
| | | | Sampling date / time | 17-Nov-2021 00:00 | ---- | ---- | ---- | ---- |
| Compound | CAS Number | LOR | Unit | EB2133163-001 | -------- | -------- | -------- | -------- |
| | | | | Result | ---- | ---- | ---- | ---- |
| **EA055: Moisture Content (Dried @ 105-110°C)** | | | | | | | | |
| Moisture Content | ---- | 0.1 | % | **19.1** | ---- | ---- | ---- | ---- |
| **EP068A: Organochlorine Pesticides (OC)** | | | | | | | | |
| alpha-BHC | 319-84-6 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| Hexachlorobenzene (HCB) | 118-74-1 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| beta-BHC | 319-85-7 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| gamma-BHC | 58-89-9 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| delta-BHC | 319-86-8 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| Heptachlor | 76-44-8 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| Aldrin | 309-00-2 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| Heptachlor epoxide | 1024-57-3 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| ^ Total Chlordane (sum) | ---- | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| trans-Chlordane | 5103-74-2 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| alpha-Endosulfan | 959-98-8 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| cis-Chlordane | 5103-71-9 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| Dieldrin | 60-57-1 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| 4.4`-DDE | 72-55-9 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| Endrin | 72-20-8 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| beta-Endosulfan | 33213-65-9 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| ^ Endosulfan (sum) | 115-29-7 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| 4.4`-DDD | 72-54-8 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| Endrin aldehyde | 7421-93-4 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| Endosulfan sulfate | 1031-07-8 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| 4.4`-DDT | 50-29-3 | 0.2 | mg/kg | <0.2 | ---- | ---- | ---- | ---- |
| Endrin ketone | 53494-70-5 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| Methoxychlor | 72-43-5 | 0.2 | mg/kg | <0.2 | ---- | ---- | ---- | ---- |
| ^ Sum of Aldrin + Dieldrin | 309-00-2/60-57-1 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| ^ Sum of DDD + DDE + DDT | 72-54-8/72-55-9/50-2 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| **EP068S: Organochlorine Pesticide Surrogate** | | | | | | | | |
| Dibromo-DDE | 21655-73-2 | 0.05 | % | **102** | ---- | ---- | ---- | ---- |
| **EP068T: Organophosphorus Pesticide Surrogate** | | | | | | | | |
| DEF | 78-48-8 | 0.05 | % | **102** | ---- | ---- | ---- | ---- |

## Surrogate Control Limits

| Sub-Matrix: **SOIL** | | Recovery Limits (%) | |
|---|---|---|---|
| *Compound* | *CAS Number* | *Low* | *High* |
| **EP068S: Organochlorine Pesticide Surrogate** | | | |
| **Dibromo-DDE** | 21655-73-2 | 10 | 138 |
| **EP068T: Organophosphorus Pesticide Surrogate** | | | |
| **DEF** | 78-48-8 | 23 | 134 |

ALS Environmental

# QUALITY CONTROL REPORT

| | | | |
|---|---|---|---|
| **Work Order** | : **EB2133163** | Page | : 1 of 4 |
| Client | : **TETRA TECH COFFEY PTY LTD** | Laboratory | : Environmental Division Brisbane |
| Contact | : MR MICHAEL PAGE | Contact | : Khaleda Ataei |
| Address | : LEVEL 5 12 CREEK STREET<br>BRISBANE QLD, AUSTRALIA 4000 | Address | : 2 Byth Street Stafford QLD Australia 4053 |
| Telephone | : +61 07 3239 9500 | Telephone | : + 61 2 8784 8555 |
| Project | : 754-BNEEN 234351 DVA GREENSLOPES | Date Samples Received | : 17-Nov-2021 |
| Order number | : ---- | Date Analysis Commenced | : 18-Nov-2021 |
| C-O-C number | : ---- | Issue Date | : 23-Nov-2021 |
| Sampler | : ---- | | |
| Site | : | | |
| Quote number | : EN/222 | | |
| No. of samples received | : 1 | | |
| No. of samples analysed | : 1 | | |

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

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

This Quality Control Report contains the following information:

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

## *Signatories*

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

| *Signatories* | *Position* | *Accreditation Category* |
|---|---|---|
| Matt Frost | Assistant Laboratory Manager | Brisbane Inorganics, Stafford, QLD |
| Matt Frost | Assistant Laboratory Manager | Brisbane Organics, Stafford, QLD |

## General Comments

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

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

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

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

## Laboratory Duplicate (DUP) Report

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

Sub-Matrix: **SOIL**

| | | | | Laboratory Duplicate (DUP) Report | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Laboratory sample ID | Sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) | Acceptable RPD (%) |
| **EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 4022053)** | | | | | | | | | |
| EB2132420-021 | Anonymous | EA055: Moisture Content | ---- | 0.1 | % | 20.8 | 20.3 | 2.1 | 0% - 20% |
| **EP068A: Organochlorine Pesticides (OC) (QC Lot: 4022005)** | | | | | | | | | |
| EB2133163-001 | QC02 | EP068: alpha-BHC | 319-84-6 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Hexachlorobenzene (HCB) | 118-74-1 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: beta-BHC | 319-85-7 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: gamma-BHC | 58-89-9 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: delta-BHC | 319-86-8 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Heptachlor | 76-44-8 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Aldrin | 309-00-2 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Heptachlor epoxide | 1024-57-3 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Total Chlordane (sum) | ---- | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: trans-Chlordane | 5103-74-2 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: alpha-Endosulfan | 959-98-8 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: cis-Chlordane | 5103-71-9 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Dieldrin | 60-57-1 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: 4.4`-DDE | 72-55-9 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Endrin | 72-20-8 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: beta-Endosulfan | 33213-65-9 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Endosulfan (sum) | 115-29-7 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: 4.4`-DDD | 72-54-8 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Endrin aldehyde | 7421-93-4 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Endosulfan sulfate | 1031-07-8 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Endrin ketone | 53494-70-5 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |

Sub-Matrix: **SOIL**

| | | | | Laboratory Duplicate (DUP) Report | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| *Laboratory sample ID* | *Sample ID* | *Method: Compound* | *CAS Number* | *LOR* | *Unit* | *Original Result* | *Duplicate Result* | *RPD (%)* | *Acceptable RPD (%)* |
| **EP068A: Organochlorine Pesticides (OC) (QC Lot: 4022005) - continued** | | | | | | | | | |
| EB2133163-001 | QC02 | EP068: Sum of DDD + DDE + DDT | 72-54-8/72-55-9/50-2 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: Sum of Aldrin + Dieldrin | 309-00-2/60-57-1 | 0.05 | mg/kg | <0.05 | <0.05 | 0.0 | No Limit |
| | | EP068: 4.4`-DDT | 50-29-3 | 0.2 | mg/kg | <0.2 | <0.2 | 0.0 | No Limit |
| | | EP068: Methoxychlor | 72-43-5 | 0.2 | mg/kg | <0.2 | <0.2 | 0.0 | No Limit |

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

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

Sub-Matrix: **SOIL**

| | | | | Method Blank (MB) Report | Laboratory Control Spike (LCS) Report | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | Spike | Spike Recovery (%) | Acceptable Limits (%) | |
| Method: Compound | CAS Number | LOR | Unit | Result | Concentration | LCS | Low | High |
| **EP068A: Organochlorine Pesticides (OC) (QCLot: 4022005)** | | | | | | | | |
| EP068: alpha-BHC | 319-84-6 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 105 | 72.8 | 127 |
| EP068: Hexachlorobenzene (HCB) | 118-74-1 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 99.4 | 71.0 | 127 |
| EP068: beta-BHC | 319-85-7 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 103 | 67.5 | 126 |
| EP068: gamma-BHC | 58-89-9 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 104 | 72.7 | 127 |
| EP068: delta-BHC | 319-86-8 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 107 | 70.6 | 122 |
| EP068: Heptachlor | 76-44-8 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 106 | 64.8 | 127 |
| EP068: Aldrin | 309-00-2 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 107 | 72.4 | 122 |
| EP068: Heptachlor epoxide | 1024-57-3 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 108 | 67.4 | 125 |
| EP068: Total Chlordane (sum) | ---- | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| EP068: trans-Chlordane | 5103-74-2 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 107 | 65.6 | 124 |
| EP068: alpha-Endosulfan | 959-98-8 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 114 | 70.4 | 122 |
| EP068: cis-Chlordane | 5103-71-9 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 107 | 65.6 | 125 |
| EP068: Dieldrin | 60-57-1 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 107 | 69.1 | 124 |
| EP068: 4.4`-DDE | 72-55-9 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 106 | 72.4 | 125 |
| EP068: Endrin | 72-20-8 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 109 | 63.2 | 127 |
| EP068: beta-Endosulfan | 33213-65-9 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 109 | 69.7 | 120 |
| EP068: Endosulfan (sum) | 115-29-7 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| EP068: 4.4`-DDD | 72-54-8 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 109 | 61.2 | 124 |
| EP068: Endrin aldehyde | 7421-93-4 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 104 | 55.5 | 125 |
| EP068: Endosulfan sulfate | 1031-07-8 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 99.5 | 57.1 | 117 |
| EP068: 4.4`-DDT | 50-29-3 | 0.2 | mg/kg | <0.2 | 0.5 mg/kg | 111 | 51.9 | 125 |
| EP068: Endrin ketone | 53494-70-5 | 0.05 | mg/kg | <0.05 | 0.5 mg/kg | 102 | 46.5 | 122 |
| EP068: Methoxychlor | 72-43-5 | 0.2 | mg/kg | <0.2 | 0.5 mg/kg | 103 | 34.0 | 130 |
| EP068: Sum of DDD + DDE + DDT | 72-54-8/72-55-9/50-2 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |
| EP068: Sum of Aldrin + Dieldrin | 309-00-2/60-57-1 | 0.05 | mg/kg | <0.05 | ---- | ---- | ---- | ---- |

## Matrix Spike (MS) Report

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

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

# QA/QC Compliance Assessment to assist with Quality Review

| | | | |
|---|---|---|---|
| **Work Order** | : **EB2133163** | Page | : 1 of 4 |
| Client | : **TETRA TECH COFFEY PTY LTD** | Laboratory | : Environmental Division Brisbane |
| Contact | : MR MICHAEL PAGE | Telephone | : + 61 2 8784 8555 |
| Project | : 754-BNEEN 234351 DVA GREENSLOPES | Date Samples Received | : 17-Nov-2021 |
| Site | : | Issue Date | : 23-Nov-2021 |
| Sampler | : ---- | No. of samples received | : 1 |
| Order number | : ---- | No. of samples analysed | : 1 |

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

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

## *Summary of Outliers*

### *Outliers : Quality Control Samples*

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

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

### *Outliers : Analysis Holding Time Compliance*

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

### *Outliers : Frequency of Quality Control Samples*

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

### *Outliers : Frequency of Quality Control Samples*

Matrix: **SOIL**

| Quality Control Sample Type | Count | | Rate (%) | | Quality Control Specification |
|---|---|---|---|---|---|
| Method | QC | Regular | Actual | Expected | |
| Matrix Spikes (MS) | | | | | |
| Pesticides by GCMS | 0 | 1 | 0.00 | 5.00 | NEPM 2013 B3 & ALS QC Standard |

## *Analysis Holding Time Compliance*

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

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

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

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

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

| *Method* / *Container / Client Sample ID(s)* | *Sample Date* | *Extraction / Preparation* | | | *Analysis* | | |
|---|---|---|---|---|---|---|---|
| | | *Date extracted* | *Due for extraction* | *Evaluation* | *Date analysed* | *Due for analysis* | *Evaluation* |
| **EA055: Moisture Content (Dried @ 105-110°C)** | | | | | | | |
| **Soil Glass Jar - Unpreserved (EA055)** | | | | | | | |
| QC02 | **17-Nov-2021** | **----** | ---- | ---- | **18-Nov-2021** | 01-Dec-2021 | ✓ |
| **EP068A: Organochlorine Pesticides (OC)** | | | | | | | |
| **Soil Glass Jar - Unpreserved (EP068)** | | | | | | | |
| QC02 | **17-Nov-2021** | **19-Nov-2021** | 01-Dec-2021 | ✓ | **22-Nov-2021** | 29-Dec-2021 | ✓ |

# Quality Control Parameter Frequency Compliance

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

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

| Quality Control Sample Type | | Count | | Rate (%) | | | Quality Control Specification |
|---|---|---|---|---|---|---|---|
| *Analytical Methods* | *Method* | *QC* | *Regular* | ***Actual*** | ***Expected*** | *Evaluation* | |
| Laboratory Duplicates (DUP) | | | | | | | |
| Moisture Content | EA055 | 1 | 8 | **12.50** | **10.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Pesticides by GCMS | EP068 | 1 | 1 | **100.00** | **10.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Laboratory Control Samples (LCS) | | | | | | | |
| Pesticides by GCMS | EP068 | 1 | 1 | **100.00** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Method Blanks (MB) | | | | | | | |
| Pesticides by GCMS | EP068 | 1 | 1 | **100.00** | **5.00** | ✓ | NEPM 2013 B3 & ALS QC Standard |
| Matrix Spikes (MS) | | | | | | | |
| Pesticides by GCMS | EP068 | 0 | 1 | **0.00** | **5.00** | × | NEPM 2013 B3 & ALS QC Standard |

## Brief Method Summaries

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

| *Analytical Methods* | *Method* | *Matrix* | *Method Descriptions* |
|---|---|---|---|
| Moisture Content | EA055 | SOIL | In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3). |
| Pesticides by GCMS | EP068 | SOIL | In house: Referenced to USEPA SW 846 - 8270 Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM Schedule B(3). |

| *Preparation Methods* | *Method* | *Matrix* | *Method Descriptions* |
|---|---|---|---|
| Tumbler Extraction of Solids | ORG17 | SOIL | In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis. |

ALS Environmental

# SAMPLE RECEIPT NOTIFICATION (SRN)

**Work Order** : **EB2133163**

| | | | |
|---|---|---|---|
| Client | : **TETRA TECH COFFEY PTY LTD** | Laboratory | : Environmental Division Brisbane |
| Contact | : MR MICHAEL PAGE | Contact | : Khaleda Ataei |
| Address | : LEVEL 5 12 CREEK STREET BRISBANE QLD, AUSTRALIA 4000 | Address | : 2 Byth Street Stafford QLD Australia 4053 |
| E-mail | : Michael.Page@coffey.com | E-mail | : khaleda.ataei@alsglobal.com |
| Telephone | : +61 07 3239 9500 | Telephone | : + 61 2 8784 8555 |
| Facsimile | : ---- | Facsimile | : +61-7-3243 7218 |
| Project | : 754-BNEEN 234351 DVA GREENSLOPES | Page | : 1 of 2 |
| Order number | : ---- | Quote number | : ES2018COFENV0007 (EN/222) |
| C-O-C number | : ---- | QC Level | : NEPM 2013 B3 & ALS QC Standard |
| Site | : | | |
| Sampler | : | | |

## *Dates*

| | | | |
|---|---|---|---|
| Date Samples Received | : 17-Nov-2021 16:05 | Issue Date | : 17-Nov-2021 |
| Client Requested Due Date | : 25-Nov-2021 | Scheduled Reporting Date | : **25-Nov-2021** |

## *Delivery Details*

| | | | |
|---|---|---|---|
| Mode of Delivery | : Carrier | Security Seal | : Intact. |
| No. of coolers/boxes | : 1 | Temperature | : 15.3°C - Ice Bricks present |
| Receipt Detail | : SMALL HARD ESKY | No. of samples received / analysed | : 1 / 1 |

## *General Comments*

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- Discounted Package Prices apply only when specific ALS Group Codes ('W', 'S', 'NT' suites) are referenced on COCs.
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Analysis will be conducted by ALS Environmental, Brisbane, NATA accreditation no. 825, Site No. 818 (Micro site no. 18958).
- **Breaches in recommended extraction / analysis holding times (if any) are displayed overleaf in the Proactive Holding Time Report table.**
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**

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

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

- **No sample container / preservation non-compliance exists.**

## Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **SOIL**

| Laboratory sample ID | Sampling date / time | Sample ID | SOIL - EA055-103 Moisture Content | SOIL - EP068A (solids) Organochlorine Pesticides by GCMS |
|---|---|---|---|---|
| EB2133163-001 | 17-Nov-2021 00:00 | QC02 | ✓ | ✓ |

## Proactive Holding Time Report

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

## Requested Deliverables

**JEREMY WICKS**

| | | |
|---|---|---|
| - *AU Certificate of Analysis - NATA (COA) | Email | Jeremy.Wicks@coffey.com |
| - *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) | Email | Jeremy.Wicks@coffey.com |
| - *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) | Email | Jeremy.Wicks@coffey.com |
| - A4 - AU Sample Receipt Notification - Environmental HT (SRN) | Email | Jeremy.Wicks@coffey.com |
| - Chain of Custody (CoC) (COC) | Email | Jeremy.Wicks@coffey.com |
| - EDI Format - ENMRG (ENMRG) | Email | Jeremy.Wicks@coffey.com |
| - EDI Format - ESDAT (ESDAT) | Email | Jeremy.Wicks@coffey.com |

**MICHAEL PAGE**

| | | |
|---|---|---|
| - *AU Certificate of Analysis - NATA (COA) | Email | Michael.Page@coffey.com |
| - *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) | Email | Michael.Page@coffey.com |
| - *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) | Email | Michael.Page@coffey.com |
| - A4 - AU Sample Receipt Notification - Environmental HT (SRN) | Email | Michael.Page@coffey.com |
| - A4 - AU Tax Invoice (INV) | Email | Michael.Page@coffey.com |
| - Chain of Custody (CoC) (COC) | Email | Michael.Page@coffey.com |
| - EDI Format - ENMRG (ENMRG) | Email | Michael.Page@coffey.com |
| - EDI Format - ESDAT (ESDAT) | Email | Michael.Page@coffey.com |

# CHAIN OF CUSTODY RECORD

ABN 50 005 085 521

☐ Sydney Laboratory — Unit F3 Bld F, 16 Mars Rd, Lane Cove West, NSW 2066 — 02 9900 8400 EnviroSampleNSW@eurofins.com

☑ Brisbane Laboratory — Unit 1, 21 Smallwood Pl., Murarrie, QLD 4172 — 07 3902 4600 EnviroSampleQLD@eurofins.com

☐ Perth Laboratory — Unit 2, 91 Leach Highway, Kewdale WA 6105 — 08 9251 9600 EnviroSampleWA@eurofins.com

☐ Melbourne Laboratory — 2 Kingston Town Close, Oakleigh, VIC 3166 — 03 8564 5000 EnviroSampleVic@eurofins.com

(1/2)

| | | | |
|---|---|---|---|
| Company | Coffey Services | Project № | 754-BNTBRN 234351 |
| Address | Level 5, Creek Street Brisbane Qld 4000 | Project Name | DVA GREENSLOPES |
| Contact Name | Michael Page | Project Manager | Jeremy Wicks |
| Phone № | 0406 384 431 | Report Format | ESDAT |
| Special Direction | *QC02 TO ALS FOR ANALYSIS PLEASE | Relinquished by | MICHAEL PAGE 12:20 17/11/21 |
| Purchase Order | | Email for Results | JEREMY.WICKS@COFFEY.COM |
| Quote ID № | | | |

Analysis (Note: Where metals are requested, please specify "Total" or "Filtered"):

Containers: 1L Plastic; 250mL Plastic; 125mL Plastic; 200mL Amber Glass; 40mL Vial; 125mL Amber Glass; Jar; Other ( )

Turn Around Requirements: ☐ Overnight (9am)* ☐ 1 Day* ☐ 2 Day* ☑ 5 Day ☐ 3 Day* ☐ Other ( ) *Surcharges apply

| № | Client Sample ID | Date | Matrix | OCPS | MOLA | 1L Plastic | 250mL Plastic | 125mL Plastic | 200mL Amber Glass | 40mL Vial | 125mL Amber Glass | Jar | Other ( ) | Sample Comments / DG Hazard Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW01 – 4.0 | 17/11/21 | S | | X | | | | | | | 1 | | |
| 2 | 4.5 | | | | X | | | | | | | 1 | | |
| 3 | 5.0 | | | | X | | | | | | | 1 | | |
| 4 | 5.5 | | | | X | | | | | | | 1 | | |
| 5 | 6.0 | | | | X | | | | | | | 1 | | |
| 6 | QC01 | | | X | | | | | | | | 1 | | |
| * 7 | QC02 | | S | X | | | | | | | | 1 | | *SEND TO ALS STAFFORD PLEASE VZF |
| 8 | QC03 | | W | X | | | | | | | 1 | | | X1 Ac |
| 9 | QC04 | 17/11/21 | W | X | | | | | | | 1 | | | " " |
| 10 | TRIP BLANK | " | S | X | | | | | | | 1 | 3 | | X2 Solid TB |
| | | | Total Counts | | | | | | | | | | | |

Environmental Division Brisbane
Work Order Reference
EB2133163

Telephone : – 61-7-3243 7222

Date/Time:
Chilled: Yes No
Temp: -0.5 10.6
Correction: 0.1
Final Temp:

| Method of Shipment | ☐ Courier (# ) | ☑ Hand Delivered | ☐ Postal | Name | MICHAEL PAGE | Signature | | Date | 17/11/21 | Time | 12:20 |
|---|---|---|---|---|---|---|---|---|---|---|---|

| Laboratory Use Only | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Received By | Sarah Kenbridge | SYD / BNE / MEL / PER / ADL / NEW / DAR | Signature | | Date | 17/11/21 | Time | 12:25PM | Temperature | 0.1 |
| Received By | Joshua Hearn | SYD / BNE / MEL / PER / ADL / NEW / DAR | Signature | | Date | 17/11/21 | Time | 16:05 | Report № | |

Submission of samples to the laboratory will be deemed as acceptance of Eurofins | mgt Standard Terms and Conditions unless agreed otherwise. A copy of Eurofins | mgt Standard Terms and Conditions is available on request.

# RE: Eurofins Test Results, Invoice - Report 822538 : Site 754-BNEEN282781 DVA GREENSLOPES - URGENT

James McCann <JamesMcCann@eurofins.com>
Thu 12/2/2021 4:34 PM
To: #AU03_EnviroSampleBris <EnviroSampleBris@eurofins.com>
Cc: #AU_CAU001_EnviroSampleVic <EnviroSampleVic@eurofins.com>

Hey guys,

Can you please log in below samples for 8-Metals and Hexavalent Chromium on a 24 hr TAT?

MW01_0.25 – No42017 (Melb)
MW01_0.5- No42018 (Melb)
MW01_0.75 - No42024 (Bris) subsamp to Melb for Hex chrom –
MW01_1 - No42025 (Bris) subsamp to Melb for Hex chrom –

BSN0228

Kind Regards,

**James McCann**
Analytical Service Manager – QLD

#846445

Mobile : 0499 572 666

**From:** Wicks, Jeremy <Jeremy.Wicks@coffey.com>
**Sent:** Thursday, 2 December 2021 4:26 PM
**To:** James McCann <JamesMcCann@eurofins.com>; Alana Wadsworth <AlanaWadsworth@eurofins.com>
**Cc:** #AU03_EnviroSampleBris <EnviroSampleBris@eurofins.com>
**Subject:** RE: Eurofins Test Results, Invoice - Report 822538 : Site 754-BNEEN282781 DVA GREENSLOPES - URGENT

EXTERNAL EMAIL*

Hi James

From this batch can you also please run the following for 8-Metals and Hexavalent Chromium on a 24 hr TAT.

MW01_0.25
MW01_0.5
MW01_0.75
MW01_1

Best regards

**Jeremy Wicks** | Environments Team Leader - Queensland
Direct **+61 7 3239 9357** | Business **+61 7 3239 9300** | Mobile **+61 435 956 733** | jeremy.wicks@tetratech.com

**Tetra Tech Coffey** | *Leading with Science®*
Level 5, 12 Creek Street | Brisbane QLD 4000 Australia | tetratech.com | tetratechcoffey.com

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**Eurofins Environment Testing NZ Limited**
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Phone : +64 9 526 45 51
IANZ # 1327

**Christchurch**
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

# Sample Receipt Advice

| | |
|---|---|
| **Company name:** | Coffey Environments Pty Ltd QLD |
| **Contact name:** | Jeremy Wicks |
| **Project name:** | DVA GREENSLOPES |
| **Project ID:** | 754-BNEEN 234351 |
| **Turnaround time:** | 1 Day |
| **Date/Time received** | Dec 2, 2021 4:34 PM |
| **Eurofins reference** | 846445 |

## Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✓ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

## Notes

The sample "MW01_0.75" has had the requested testing added to report 846389.

## Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

**James McCann on phone : or by email: JamesMcCann@eurofins.com**

Results will be delivered electronically via email to Jeremy Wicks - Jeremy.Wicks@coffey.com.

*Note: A copy of these results will also be delivered to the general Coffey Environments Pty Ltd QLD email address.*

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

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**Christchurch**
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

**Company Name:** Coffey Environments Pty Ltd QLD
**Address:** Level 5, 12 Creek Street
Brisbane
QLD 4000

**Project Name:** DVA GREENSLOPES
**Project ID:** 754-BNEEN 234351

**Order No.:**
**Report #:** 846445
**Phone:** 07 3503 7192
**Fax:**

**Received:** Dec 2, 2021 4:34 PM
**Due:** Dec 3, 2021
**Priority:** 1 Day
**Contact Name:** Jeremy Wicks

**Eurofins Analytical Services Manager : James McCann**

| Sample Detail | | | | | | Chromium (hexavalent) | Metals M8 | Metals M8 | Moisture Set | Moisture Set |
|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | X | X | X |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | | | | | |
| 1 | MW01_1.0 | Nov 17, 2021 | | Soil | B21-De06038 | X | | X | | X |
| 2 | MW01_0.5 | Nov 17, 2021 | | Soil | B21-De06068 | X | X | | X | |
| 3 | MW01_0.25 | Nov 17, 2021 | | Soil | B21-De06069 | X | X | | X | |
| **Test Counts** | | | | | | 3 | 3 | 3 | 3 | 3 |

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# Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 1254

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.

**Coffey Environments Pty Ltd QLD**
**Level 5, 12 Creek Street**
**Brisbane**
**QLD 4000**

**Attention:** **Jeremy Wicks**

**Report** **846445-S**
Project name DVA GREENSLOPES
Project ID 754-BNEEN 234351
Received Date Dec 02, 2021

| **Client Sample ID** | | | **MW01_0.25** | **MW01_0.5** | **MW01_1.0** |
|---|---|---|---|---|---|
| **Sample Matrix** | | | **Soil** | **Soil** | **Soil** |
| **Eurofins Sample No.** | | | **B21-De05976** | **B21-De05977** | **B21-De06038** |
| **Date Sampled** | | | **Sep 03, 2021** | **Sep 03, 2021** | **Nov 17, 2021** |
| Test/Reference | LOR | Unit | | | |
| | | | | | |
| Chromium (hexavalent) | 1 | mg/kg | < 1 | < 1 | < 1 |
| % Moisture | 1 | % | 22 | 21 | 18 |
| **Heavy Metals** | | | | | |
| Arsenic | 2 | mg/kg | 9.9 | < 2 | 3.5 |
| Cadmium | 0.4 | mg/kg | < 0.4 | < 0.4 | < 0.5 |
| Chromium | 5 | mg/kg | 6.5 | 89 | 100 |
| Copper | 5 | mg/kg | 25 | 9.3 | 21 |
| Lead | 5 | mg/kg | 21 | < 5 | < 5 |
| Mercury | 0.1 | mg/kg | < 0.1 | < 0.1 | < 0.1 |
| Nickel | 5 | mg/kg | 7.8 | 23 | 54 |
| Zinc | 5 | mg/kg | 80 | 19 | 25 |

## 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 |
|---|---|---|---|
| Chromium (hexavalent) | Melbourne | Dec 03, 2021 | 28 Days |
| - Method: APHA 3500-Cr Hexavalent Chromium- (Extraction:- USEPA3060) | | | |
| Metals M8 | Brisbane | Dec 02, 2021 | 28 Days |
| - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS | | | |
| % Moisture | Brisbane | Dec 02, 2021 | 14 Days |
| - Method: LTM-GEN-7080 Moisture | | | |

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**Christchurch**
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Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

**Company Name:** Coffey Environments Pty Ltd QLD
**Address:** Level 5, 12 Creek Street
Brisbane
QLD 4000

**Project Name:** DVA GREENSLOPES
**Project ID:** 754-BNEEN 234351

**Order No.:**
**Report #:** 846445
**Phone:** 07 3503 7192
**Fax:**

**Received:** Dec 2, 2021 4:34 PM
**Due:** Dec 3, 2021
**Priority:** 1 Day
**Contact Name:** Jeremy Wicks

**Eurofins Analytical Services Manager : James McCann**

| Sample Detail | | | | | | Chromium (hexavalent) | Metals M8 | Metals M8 | Moisture Set | Moisture Set |
|---|---|---|---|---|---|---|---|---|---|---|
| **Melbourne Laboratory - NATA # 1261 Site # 1254** | | | | | | X | X | | X | X |
| **Sydney Laboratory - NATA # 1261 Site # 18217** | | | | | | | | | | |
| **Brisbane Laboratory - NATA # 1261 Site # 20794** | | | | | | | | X | X | X |
| **Mayfield Laboratory - NATA # 1261 Site # 25079** | | | | | | | | | | |
| **Perth Laboratory - NATA # 2377 Site # 2370** | | | | | | | | | | |
| **External Laboratory** | | | | | | | | | | |
| **No** | **Sample ID** | **Sample Date** | **Sampling Time** | **Matrix** | **LAB ID** | | | | | |
| 1 | MW01_1.0 | Nov 17, 2021 | | Soil | B21-De06038 | X | | X | | X |
| 2 | MW01_0.5 | Nov 17, 2021 | | Soil | B21-De06068 | X | X | | X | |
| 3 | MW01_0.25 | Nov 17, 2021 | | Soil | B21-De06069 | X | X | | X | |
| **Test Counts** | | | | | | 3 | 3 | 3 | 3 | 3 |

## Internal Quality Control Review and Glossary

### General

1. 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.
3. 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.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue 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
**ug/L:** micrograms per litre
**ppm:** Parts per million
**ppb:** Parts per billion
**%:** Percentage
**org/100mL:** Organisms per 100 millilitres
**NTU:** Nephelometric Turbidity Units
**MPN/100mL:** Most Probable Number of organisms per 100 millilitres

### Terms

| | |
|---|---|
| **Dry** | Where a moisture has been determined on a solid sample the result is expressed on a dry basis. |
| **LOR** | Limit of Reporting. |
| **SPIKE** | Addition of the analyte to the sample and reported as percentage recovery. |
| **RPD** | Relative Percent Difference between two Duplicate pieces of analysis. |
| **LCS** | Laboratory Control Sample - reported as percent recovery. |
| **CRM** | Certified Reference Material - 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. |
| **Surr - Surrogate** | The addition of a like compound to the analyte target and reported as percentage recovery. |
| **Duplicate** | A second piece of analysis from the same sample and reported in the same units as the result to show comparison. |
| **USEPA** | United States Environmental Protection Agency |
| **APHA** | American Public Health Association |
| **TCLP** | Toxicity Characteristic Leaching Procedure |
| **COC** | Chain of Custody |
| **SRA** | Sample Receipt Advice |
| **QSM** | US Department of Defense Quality Systems Manual Version |
| **CP** | Client Parent - QC was performed on samples pertaining to this report |
| **NCP** | 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. |
| **TEQ** | Toxic Equivalency Quotient |
| **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% Phenols & 50-150% PFASs..

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

.

### QC Data General Comments

1. 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.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

**Quality Control Results**

| Test | | | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---|---|---|---|---|---|---|---|---|
| **Method Blank** | | | | | | | | | |
| Chromium (hexavalent) | | | mg/kg | < 1 | | | 1 | Pass | |
| **Method Blank** | | | | | | | | | |
| **Heavy Metals** | | | | | | | | | |
| Arsenic | | | mg/kg | < 2 | | | 2 | Pass | |
| Cadmium | | | mg/kg | < 0.4 | | | 0.5 | Pass | |
| Chromium | | | mg/kg | < 5 | | | 5 | Pass | |
| Copper | | | mg/kg | < 5 | | | 5 | Pass | |
| Lead | | | mg/kg | < 5 | | | 5 | Pass | |
| Mercury | | | mg/kg | < 0.1 | | | 0.1 | Pass | |
| Nickel | | | mg/kg | < 5 | | | 5 | Pass | |
| Zinc | | | mg/kg | < 5 | | | 5 | Pass | |
| **LCS - % Recovery** | | | | | | | | | |
| Chromium (hexavalent) | | | % | 101 | | | 70-130 | Pass | |
| **LCS - % Recovery** | | | | | | | | | |
| **Heavy Metals** | | | | | | | | | |
| Arsenic | | | % | 111 | | | 80-120 | Pass | |
| Cadmium | | | % | 107 | | | 80-120 | Pass | |
| Chromium | | | % | 107 | | | 80-120 | Pass | |
| Copper | | | % | 109 | | | 80-120 | Pass | |
| Lead | | | % | 106 | | | 80-120 | Pass | |
| Mercury | | | % | 114 | | | 80-120 | Pass | |
| Nickel | | | % | 107 | | | 80-120 | Pass | |
| Zinc | | | % | 103 | | | 80-120 | Pass | |
| **Test** | **Lab Sample ID** | **QA Source** | **Units** | **Result 1** | | | **Acceptance Limits** | **Pass Limits** | **Qualifying Code** |
| **Spike - % Recovery** | | | | | | | | | |
| | | | | Result 1 | | | | | |
| Chromium (hexavalent) | M21-De05158 | NCP | % | 109 | | | 70-130 | Pass | |
| **Spike - % Recovery** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | | | | | |
| Arsenic | B21-No72072 | NCP | % | 98 | | | 75-125 | Pass | |
| Cadmium | B21-No72072 | NCP | % | 103 | | | 75-125 | Pass | |
| Chromium | B21-No72072 | NCP | % | 104 | | | 75-125 | Pass | |
| Copper | B21-No72072 | NCP | % | 106 | | | 75-125 | Pass | |
| Lead | B21-No72072 | NCP | % | 104 | | | 75-125 | Pass | |
| Mercury | B21-No72072 | NCP | % | 107 | | | 75-125 | Pass | |
| Nickel | B21-No72072 | NCP | % | 105 | | | 75-125 | Pass | |
| Zinc | B21-No72072 | NCP | % | 105 | | | 75-125 | Pass | |
| **Test** | **Lab Sample ID** | **QA Source** | **Units** | **Result 1** | | | **Acceptance Limits** | **Pass Limits** | **Qualifying Code** |
| **Duplicate** | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| Chromium (hexavalent) | M21-De05157 | NCP | mg/kg | < 1 | < 1 | <1 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| | | | | Result 1 | Result 2 | RPD | | | |
| % Moisture | B21-De05977 | CP | % | 21 | 22 | 6.0 | 30% | Pass | |
| **Duplicate** | | | | | | | | | |
| **Heavy Metals** | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic | B21-No72081 | NCP | mg/kg | 4.5 | 4.7 | 4.0 | 30% | Pass | |
| Cadmium | B21-No72081 | NCP | mg/kg | < 0.5 | < 0.5 | <1 | 30% | Pass | |
| Chromium | B21-No72081 | NCP | mg/kg | 12 | 10 | 19 | 30% | Pass | |
| Copper | B21-No72081 | NCP | mg/kg | < 5 | < 5 | <1 | 30% | Pass | |

| Duplicate | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Heavy Metals** | | | | Result 1 | Result 2 | RPD | | | |
| Lead | B21-No72081 | NCP | mg/kg | 9.7 | 9.5 | 2.0 | 30% | Pass | |
| Mercury | B21-No72081 | NCP | mg/kg | < 0.1 | < 0.1 | <1 | 30% | Pass | |
| Nickel | B21-No72081 | NCP | mg/kg | 6.2 | 5.1 | 19 | 30% | Pass | |
| Zinc | B21-No72081 | NCP | mg/kg | 22 | 22 | 1.0 | 30% | Pass | |

## Comments

### Sample Integrity

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

### Authorised by:

| | |
|---|---|
| James McCann | Analytical Services Manager |
| Scott Beddoes | Senior Analyst-Inorganic (VIC) |
| Steven Trout | Senior Analyst-Metal (QLD) |
| Emily Rosenberg | Senior Analyst-Metal (VIC) |

**Glenn Jackson**
**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 or please click here.

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# APPENDIX E: EMR SEARCH RESULT

Department of Environment and Science (DES)
ABN 46 640 294 485
400 George St Brisbane, Queensland 4000
GPO Box 2454, Brisbane QLD 4001, AUSTRALIA
www.des.qld.gov.au

# SEARCH RESPONSE

ENVIRONMENTAL MANAGEMENT REGISTER (EMR)
CONTAMINATED LAND REGISTER (CLR)

Jeremy Wicks
Level 5, 12 Creek Street, Brisbane
Brisbane QLD 4000

Transaction ID: 50650490 EMR Site Id: 148513 18 December 2020
Cheque Number:
Client Reference:

This response relates to a search request received for the site:
Lot: 124 Plan: RP46047

## EMR RESULT

The above site IS included on the Environmental Management Register.
Lot: 124 Plan: RP46047
Address: 53 HEADFORT STREET
GREENSLOPES QLD 4120

The site has been subject to contamination from a hazardous contaminant as follows:
HAZARDOUS CONTAMINANT - This site has been subject to a hazardous contaminant. Refer to the summary given below.
Elevated concentrations of organochlorine pesticides (DDD/DDT/DDE and Aldrin/Dieldrin) identified on site above the nominated investigation levels.

## CLR RESULT

The above site is NOT included on the Contaminated Land Register.

## ADDITIONAL ADVICE

All search responses include particulars of land listed in the EMR/CLR when the search was generated.
The EMR/CLR does NOT include:-

1. land which is contaminated land (or a complete list of contamination) if DES has not been notified
2. land on which a notifiable activity is being or has been undertaken (or a complete list of activities) if DES has not been notified

If you have any queries in relation to this search please phone 13QGOV (13 74 68)

**Administering Authority**

Department of Environment and Science (DES)
ABN 46 640 294 485
400 George St Brisbane, Queensland 4000
GPO Box 2454, Brisbane QLD 4001, AUSTRALIA
www.des.qld.gov.au

# SEARCH RESPONSE

ENVIRONMENTAL MANAGEMENT REGISTER (EMR)
CONTAMINATED LAND REGISTER (CLR)

Jeremy Wicks
Level 5, 12 Creek Street, Brisbane
Brisbane QLD 4000

Transaction ID: 50650489 EMR Site Id: 148512 18 December 2020
Cheque Number:
Client Reference:

This response relates to a search request received for the site:
Lot: 123 Plan: RP46047

## EMR RESULT

The above site IS included on the Environmental Management Register.
Lot: 123 Plan: RP46047
Address: 51 HEADFORT STREET
GREENSLOPES QLD 4120

The site has been subject to contamination from a hazardous contaminant as follows:
HAZARDOUS CONTAMINANT - This site has been subject to a hazardous contaminant. Refer to the summary given below.
Elevated concentrations of organochlorine pesticides (DDD/DDT/DDE and Aldrin/Dieldrin) identified on site above the nominated investigation levels.

## CLR RESULT

The above site is NOT included on the Contaminated Land Register.

## ADDITIONAL ADVICE

All search responses include particulars of land listed in the EMR/CLR when the search was generated.
The EMR/CLR does NOT include:-

1. land which is contaminated land (or a complete list of contamination) if DES has not been notified
2. land on which a notifiable activity is being or has been undertaken (or a complete list of activities) if DES has not been notified

If you have any queries in relation to this search please phone 13QGOV (13 74 68)

**Administering Authority**

Department of Environment and Science (DES)
ABN 46 640 294 485
400 George St Brisbane, Queensland 4000
GPO Box 2454, Brisbane QLD 4001, AUSTRALIA
www.des.qld.gov.au

# SEARCH RESPONSE

ENVIRONMENTAL MANAGEMENT REGISTER (EMR)
CONTAMINATED LAND REGISTER (CLR)

Jeremy Wicks
Level 5, 12 Creek Street, Brisbane
Brisbane QLD 4000

Transaction ID: 50650488 EMR Site Id: 148514 18 December 2020
Cheque Number:
Client Reference:

This response relates to a search request received for the site:
Lot: 125 Plan: RP46047

## EMR RESULT

The above site IS included on the Environmental Management Register.
Lot: 125 Plan: RP46047
Address: 55 HEADFORT STREET
GREENSLOPES QLD 4120

The site has been subject to contamination from a hazardous contaminant as follows:
HAZARDOUS CONTAMINANT - This site has been subject to a hazardous contaminant. Refer to the summary given below.
Elevated concentrations of organochlorine pesticides (DDD/DDT/DDE and Aldrin/Dieldrin) identified on site above the nominated investigation levels.

## CLR RESULT

The above site is NOT included on the Contaminated Land Register.

## ADDITIONAL ADVICE

All search responses include particulars of land listed in the EMR/CLR when the search was generated.
The EMR/CLR does NOT include:-

1. land which is contaminated land (or a complete list of contamination) if DES has not been notified
2. land on which a notifiable activity is being or has been undertaken (or a complete list of activities) if DES has not been notified

If you have any queries in relation to this search please phone 13QGOV (13 74 68)

**Administering Authority**

# APPENDIX F: SUMMARY OF PREVIOUS INVESTIGATIONS

**Coffey, 2013a. *Department of Veteran Affairs Phase 1 Contaminated Land Assessment, 114 Newdegate Street, Greenslopes Queensland***

This investigation comprised a desk top review, site inspection and limited soil sampling program. The limited sampling program identified elevated concentrations of zinc and OCPs which were below the adopted health investigations levels (NEPM residential guidelines with accessible soils or HIL A). Zinc is potentially derived from metallic materials present on the Site.

Fragments of ACM were observed on the Site. Asbestos fines (AF) in soil exceed the nominated investigation levels in two samples collected (SS01 0.007% w/w and SS02 0.02% w/w).

**Coffey, 2013b. *Department of Veteran Affairs Phase 2 Contaminated Land Assessment, 114 Newdegate Street, Greenslopes Queensland***

This investigation comprised a further soil sampling program to investigate the presence of contamination on the Site. Key findings of the investigation included:

- the presence of ACM in soil beneath the Main Hall Building and Accommodation Building which exceeded the nominated investigation levels (HIL-A).
- AF (chrysotile) detected in one soil sample with levels below the nominated investigation levels.
- Asbestos were not detected in nine of the ten samples collected. The report noted that the Phase 2 investigation adopted a methodology compliant with Australian Standards and was considered to supersede the findings of the Phase 1 Investigation.
- OCPs (aldrin + dieldrin) with concentrations which exceeded the nominated investigation levels (HIL-A) along the southern wall of the Main Hall, and beneath and along the southern wall of the Accommodation Building.
- the presence of anthropogenic materials including slag in soil material at sample sites located on the southern boundary of the Site (A05 and A06), sample locations to the west of the Accommodation Building (A04), and beneath and north of the Main Hall (A08 and A10).

**Coffey, 2019. *Department of Veteran Affairs Delineation of Organochlorine Soil Impacts, 114 Newdegate Street, Greenslopes Queensland***

This investigation comprised a further soil sampling program to further delineate the extent of OCPs on the Site, and slag material found on the southern side of the Main Hall. The slag material was observed as being potentially used as drainage material on the Site.

The investigation found OCPs which exceeded the nominated investigations levels (HIL-A and HIL-C) primarily where building external walls intersected the ground. Leachability analysis of selected soil samples via the TCLP[21] were undertaken for waste classification purposes.

This investigation observed the presence of ACM materials on the ground surface however no further investigation of ACM was undertaken.

[21] Toxicity Characteristic Leaching Procedure

# APPENDIX G: QUALITY ASSURANCE / QUALITY CONTROL

# 1. Quality Control

## 1.1 Introduction

The steps in the sampling and analysis process are subject to natural and inherent variability, and this can affect the results produced, and the overall quality of the data sets generated. In order to minimise the effect of this, standard procedures are used for works carried out in the field, and in the laboratory. The use of such procedures represents one aspect of the quality assurance process. To measure the effectiveness of the quality assurance process, quality control samples can be tested, and other quality control tests can be conducted during the analysis of samples taken in the field.

Quality control (QC) samples and tests can be used to assess both the accuracy and the precision of the results produced.

- Measures of ACCURACY provide information on how close to the true result is the reported result. For practical reasons, measures of accuracy are usually confined to the laboratory steps in the overall process.
- Measures of PRECISION provide information on the variability in the results. Precision can be assessed as:
  - "repeatability" or intra-laboratory variation – the degree of variation in a result when the same laboratory analyses a sample (or blind replicate) several times, and;
  - "reproducibility" or inter-laboratory variation – the degree of variation in a result when a different laboratory separately analyses a sample.

In addition, blank samples can be used to assess whether extraneous materials and factors have contributed to the results obtained from the sampling and analysis process.

QC testing can be conducted covering all steps of the process (referred to as Field QC in this report), or just one portion of the process, such as the laboratory steps (referred to as Laboratory QC in this report).

## 1.2 Field Quality Control

Precision of the sample collection, transport and analysis process is measured by the relative percent difference (RPD) between duplicate results. Acceptance targets for laboratory duplicates are dependent on matrix type, contaminant type and contaminant concentrations. Australian Standard AS 4482.1 – 2005 *(Guide to the investigation and sampling of sites with potentially contaminated soil. Part 1: Non-volatile and semi-volatile compounds)* provides the following guidance on the acceptable limits of precision for soil samples.

Typical relative percent difference is 30% – 50% of mean concentration of analyte. This variation can be expected to be higher for organic analysis than for inorganics, and for low concentration of analytes.

Noting this guidance, Coffey has adopted the following acceptance criteria for RPD results on replicate samples:

- 30% for concentrations more than 10 times the laboratory limit of reporting (LOR), and;
- 50% for concentrations less than 10 times the LOR.

For blanks, Coffey's approach is that the concentration of any contaminant should be less than the LOR in all blank samples.

## 1.3 Laboratory Quality Control

Laboratories are accredited by the National Association of Testing Authorities (NATA) on the basis of their ability to provide quantitative evidence of their ability and competence to produce reliable results against recognised benchmarks NATA accredited laboratories are able to demonstrate the ability to produce reliable, repeatable results for a range of parameters within a range of sample matrices. Each laboratory method used undergoes a validation process before it is adopted by the laboratory and accredited by NATA. As part of the validation process, the precision and accuracy of the method are established.

In addition, laboratories conduct their own quality control testing to indicate their performance on each reported batch of samples. The results of this testing are compared with the validated precision and accuracy.

Precision of results is measured by the Relative Percent Difference (RPD) between replicate samples selected within the laboratory. RPD is calculated in the same way as described above for Field QC.

Accuracy of results is assessed in a number of ways:

- **Reference materials**, with known concentrations of analytes are analysed with the batch of samples. The results of this analysis are compared with the established concentrations in the reference material.
- **Spike additions**. Known amounts of targeted analytes are added to the samples to be analysed, and the spiked samples are processed through the analytical process. The amount of spiked material is measured as the recovery of the added amount reported in the final result.
- **Surrogate spikes**. Known amounts of chemical compounds with similar properties to the targeted analytes are added to the samples to be analysed, and the spiked samples are processed through the analytical process. The amount of spiked material is measured as the recovery of the added amount reported in the final result.

Schedule B(3) of the National Environment Protection Measure (NEPM) for contaminated sites states that, in general, at least 70% recovery should be achievable from a reference method. Additionally, standard methods prepared by international agencies such as the US EPA and APHA, frequently have performance data such as expected spike recovery incorporated within the method. Where these vary from the 70% figure indicated in the NEPM Schedule, they are noted in the discussion of results which follows this introduction.

Based on the above, Coffey has adopted 70% - 130% as the default acceptable range for spike recovery and surrogates spike recovery results, and as the default acceptance limits for the difference between analysis results and the expected result for reference materials.

# 2. SAMPLING QC PROGRAMME

## 2.1 Precision / Accuracy

| | Yes | No (Comment below) |
|---|---|---|
| 1. Was a NATA registered laboratory used? | ☒ | ☐ |
| 2. Did the laboratory perform the requested tests? | ☒ | ☐ |
| 3. Were the laboratory methods adopted NATA endorsed? | ☒ | ☐ |
| 4. Were the appropriate test procedures followed? | ☒ | ☐ |
| 5. Were the reporting limits satisfactory? | ☒ | ☐ |
| 6. Was the NATA Seal on the reports? | ☒ | ☐ |
| 7. Were the reports signed by an authorised person? | ☒ | ☐ |

**Comments**

Nil

| | | |
|---|---|---|
| Precision/Accuracy of the Laboratory Report | ☒ Satisfactory<br>☐ Partially Satisfactory | ☐ Unsatisfactory |

## 2.2 Sample Handling

| Yes | No |
|---|---|

| | | (Comment below) |
|---|---|---|
| 1. Were the sample **holding times** met? | ☒ | ☐ |
| 2. Were the samples in **proper custody** between the field and reaching the laboratory? | ☒ | ☐ |
| 3. Were the samples **properly and adequately** preserved? *This includes keeping the samples chilled, where applicable.* | ☐ | ☒ |
| 4. Were the samples received by the laboratory in good condition? | ☒ | ☐ |

| | | |
|---|---|---|
| Sample Handling was: | ☒ Satisfactory<br>☐ Partially Satisfactory | ☐ Unsatisfactory |

**Comments:**

Samples were submitted to Eurofins (Primary Laboratory) and received at <1 degrees Celsius. Eurofins submitted the QA/QC inter laboratory samples to ALS and these were received by ALS with a temperature of 14.6 and 15.3 degrees Celsius. A corrective action has been raised with Eurofins. The primary contaminants of concern (OCP) and other potential contaminants investigated (metals and PAH in slag) have low volatility. Accordingly this is considered to be minor breach and not have affected the laboratory results reported by ALS.

# 3. FIELD QA/QC

## 3.1 Field QC sample summary

| | Soil |
|---|---|
| Number of Primary samples analysed | 53 |
| Number of days sampling | 2 |
| Field Duplicates / Triplicates (at least 1 in 20 samples) | 3 / 3 |
| Trip Blanks (at least 1/day or sampling event) | 2 |
| Trip Spikes (at least 1/day or sampling event) | 0 |
| Field Blanks (at least 1/day/site) | 2 |
| Rinsate Blanks (at least 1/day/matrix/equipment) | 2 |

**Comments:**

Trip spikes were not required on the basis that the contaminants of concern have low volatility.

## 3.2 Field Duplicates

| | Yes | No (Comment below) |
|---|---|---|
| A. Were an Adequate Number of field duplicates analysed? | ☒ | ☐ |
| B. Were RPDs within Control Limits? (30 % if >20 x LOR, 50% if < 20 LOR, no limit if <10 LOR) | ☐ | ☒ |

**Comment:**

| Primary sample | Duplicate / Triplicate sample | Analyte | Result |
|---|---|---|---|
| BH19_0.3 | QC01_210903 | Lead | 51 |
| | QC02_210903 | Chromium (III+VI) | 107 |
| BH17_0.3 | QC10_210903 | Copper | 105 |

For all RPD exceedances above, the primary result has reported a higher concentration for an analyte where both results are below the adopted criteria. As the presence of impact has been identified with other analytes the overall outcome is unchanged.

## 3.3 Trip Blanks

| | Yes | No (Comment below) |
|---|---|---|
| A. Were an Adequate Number of trip blanks collected? | ☒ | ☐ |
| B. Were the Trip Blanks free of contaminants? (If no, comment whether the contaminants present are also detected in the samples and whether they are common laboratory chemicals.) | ☒ | ☐ |

## 3.4 Field Blanks

| | Yes | No (Comment below) |
|---|---|---|
| A. Were an adequate number of Field Blanks collected? | ☒ | ☐ |
| B. Were the Field Blanks free of contaminants? (If no, comment whether the contaminants present are also detected in the samples and whether they are common laboratory chemicals.) | ☒ | ☐ |

## 3.5 Equipment Rinsates

| | Yes | No (Comment below) |
|---|---|---|
| A. Were an adequate number of Equipment Rinsates collected? | ☒ | ☐ |
| B. Were the Equipment Rinsates free of contaminants? (If no, comment whether the contaminants present are also detected in the samples and whether they are common laboratory chemicals.) | ☒ | ☐ |

| | | |
|---|---|---|
| Field QA/QC was: | ☒ Satisfactory | ☐ Unsatisfactory |
| | ☐ Partially Satisfactory | |

## 3.6 Laboratory Quality Control Procedures

As noted in Section 1.3, laboratories conduct their own quality control testing to indicate their performance on each reported batch of samples. The following section assesses the adequacy of these procedures.

| | Yes | No (Comment below) |
|---|---|---|
| 2 Were the laboratory blanks/reagents blanks free of contamination? | ☒ | ☐ |
| 3. Were the spike recoveries within control limits?<br>a. Organics (60% to 110%) | ☐ | ☒ |
| 4. Were the RPDs of the laboratory duplicates within control limits? | ☒ | ☐ |
| 5. Were the surrogate recoveries within control limits? | ☐ | ☒ |

**Comments**

Batch 822538 contains 6 surrogate recoveries outside control limits. The recipient laboratory has advised that the surrogate recoveries have been considered in the reporting of the results and have not affected the validity of the results.

Batch EB2125660 from the secondary contains one matrix spike recovery below control limits. The matrix spike was for arsenic and had a recovery of 66.1% and was marginally outside the limits of 70 to 130%. Arsenic is not a contaminant of concern for the site and spike recoveries for the primary laboratory were within acceptable limits.

| | | |
|---|---|---|
| 5. The laboratory internal QA/QC was: | ☒ Satisfactory | ☐ Unsatisfactory |
| | ☐ Partially Satisfactory | |

# 4. DATA USABILITY

1. Data Directly Usable ☒
2. Data Usable with the following corrections/modifications (see comment below) ☐
3. Data Not Usable. ☐

**COMMENTS**

Nil

QA/QC Report Prepared by Michael Page

QA/QC Report Reviewed by: Jeremy Wicks
(Reviewer)

Field Blanks (Water)
Filter: Lab_Report_Number in('822538')

| | | | |
|---|---|---|---|
| **Lab Report Number** | 822538 | 822538 | 822538 |
| **Field ID** | QC14_210903 | QC13_210903 | TRIP BLANK |
| **Matrix** | Water | Water | Soil |
| **Sampled_Date/Time** | 3/09/2021 | 3/09/2021 | 3/09/2021 |
| **Sample Type** | Field_B | Rinsate | Trip_B |

| Chem_Group | ChemName | Units | EQL | | | |
|---|---|---|---|---|---|---|
| Metals | Arsenic | mg/l | 0.001 | <0.001 | <0.001 | |
| | Cadmium | mg/l | 0.0002 | <0.0002 | <0.0002 | |
| | Lead | mg/l | 0.001 | <0.001 | <0.001 | |
| | Mercury | mg/l | 0.0001 | <0.0001 | <0.0001 | |
| | Nickel | mg/l | 0.001 | <0.001 | <0.001 | |
| | Copper | mg/l | 0.001 | <0.001 | <0.001 | |
| | Zinc | mg/l | 0.005 | <0.005 | <0.005 | |
| | Chromium (III+VI) | mg/l | 0.001 | <0.001 | <0.001 | |
| | | | | | | |
| Organochlorine Pesticides | 4,4-DDE | µg/l | 0.2 | <0.2 | <0.2 | |
| | a-BHC | µg/l | 0.2 | <0.2 | <0.2 | |
| | Aldrin | µg/l | 0.2 | <0.2 | <0.2 | |
| | Aldrin + Dieldrin | µg/l | 0.2 | <0.2 | <0.2 | |
| | b-BHC | µg/l | 0.2 | <0.2 | <0.2 | |
| | chlordane | µg/l | 2 | <2 | <2 | |
| | d-BHC | µg/l | 0.2 | <0.2 | <0.2 | |
| | DDD | µg/l | 0.2 | <0.2 | <0.2 | |
| | DDT | µg/l | 0.2 | <0.2 | <0.2 | |
| | Dieldrin | µg/l | 0.2 | <0.2 | <0.2 | |
| | Endosulfan I | µg/l | 0.2 | <0.2 | <0.2 | |
| | Endosulfan II | µg/l | 0.2 | <0.2 | <0.2 | |
| | Endosulfan sulphate | µg/l | 0.2 | <0.2 | <0.2 | |
| | Endrin | µg/l | 0.2 | <0.2 | <0.2 | |
| | Endrin aldehyde | µg/l | 0.2 | <0.2 | <0.2 | |
| | Endrin ketone | µg/l | 0.2 | <0.2 | <0.2 | |
| | g-BHC (Lindane) | µg/l | 0.2 | <0.2 | <0.2 | |
| | Heptachlor | µg/l | 0.2 | <0.2 | <0.2 | |
| | Hexachlorobenzene | µg/l | 0.2 | <0.2 | <0.2 | |
| | Methoxychlor | µg/l | 0.2 | <0.2 | <0.2 | |
| | Toxaphene | mg/l | 0.005 | <0.005 | <0.005 | |
| | Organochlorine pesticides EPAVic | µg/l | 2 | <2 | <2 | |
| | Other organochlorine pesticides EPAVic | µg/l | 2 | <2 | <2 | |
| | DDT+DDE+DDD | µg/l | 0.2 | <0.2 | <0.2 | |
| | Heptachlor epoxide | µg/l | 0.2 | <0.2 | <0.2 | |
| | | | | | | |
| Polycyclic Aromatic Hydrocarbons | Acenaphthene | µg/l | 1 | <1 | | |
| | Acenaphthylene | µg/l | 1 | <1 | | |
| | Anthracene | µg/l | 1 | <1 | | |
| | Benz(a)anthracene | µg/l | 1 | <1 | | |
| | Benzo(g,h,i)perylene | µg/l | 1 | <1 | | |
| | Benzo(k)fluoranthene | µg/l | 1 | <1 | | |
| | Chrysene | µg/l | 1 | <1 | | |
| | Benzo(b+j)fluoranthene | µg/l | 1 | <1 | | |
| | Dibenz(a,h)anthracene | µg/l | 1 | <1 | | |
| | Fluoranthene | µg/l | 1 | <1 | | |
| | Indeno(1,2,3-c,d)pyrene | µg/l | 1 | <1 | | |
| | Phenanthrene | µg/l | 1 | <1 | | |
| | Pyrene | µg/l | 1 | <1 | | |
| | PAHs (Sum of total) | µg/l | 1 | <1 | | |
| | Benzo(a) pyrene | µg/l | 1 | <1 | | |
| | Fluorene | µg/l | 1 | <1 | | |
| | Naphthalene-PAH | MG/KG | 0.001 | <0.001 | | |
| BTEX | Benzene | mg/kg | 0.1 | | | <0.1 |
| | Toluene | mg/kg | 0.1 | | | <0.1 |
| | Ethylbenzene | mg/kg | 0.1 | | | <0.1 |
| | Xylene (o) | mg/kg | 0.1 | | | <0.1 |
| | Xylene (m & p) | mg/kg | 0.2 | | | <0.2 |
| | Xylene Total | mg/kg | 0.3 | | | <0.3 |
| | Naphthalene-MAH | mg/kg | 0.5 | | | <0.5 |
| Total Petroleum Hydrocarbons | C6 - C9 | mg/kg | 20 | | | <20 |
| Total Recoverable Hydrocarbons | F1 (C6 - C10) | mg/kg | 20 | | | <20 |
| | F1 (C6 - C10) less BTEX | mg/kg | 20 | | | <20 |

Field Blanks (Water)
Filter: Lab_Report_Number in('822538')

| **Lab Report Number** | 842197 | 842197 | 842197 |
|---|---|---|---|
| **Field ID** | QC03 | QC04 | TRIP BLANK |
| **Matrix** | Water | Water | Soil |
| **Sampled_Date/Time** | 17/11/2021 | 17/11/2021 | 17/11/2021 |
| **Sample Type** | Field_B | Rinsate | Trip_B |

| Chem_Group | ChemName | Units | EQL | | | |
|---|---|---|---|---|---|---|
| Metals | Arsenic | mg/l | 0.001 | <0.001 | <0.001 | |
| | Cadmium | mg/l | 0.0002 | <0.0002 | <0.0002 | |
| | Lead | mg/l | 0.001 | <0.001 | <0.001 | |
| | Mercury | mg/l | 0.0001 | <0.0001 | <0.0001 | |
| | Nickel | mg/l | 0.001 | <0.001 | <0.001 | |
| | Copper | mg/l | 0.001 | <0.001 | <0.001 | |
| | Zinc | mg/l | 0.005 | <0.005 | <0.005 | |
| | Chromium (III+VI) | mg/l | 0.001 | <0.001 | <0.001 | |
| | | | | | | |
| Organochlorine Pesticides | 4,4-DDE | µg/l | 0.2 | <0.2 | <0.2 | |
| | a-BHC | µg/l | 0.2 | <0.2 | <0.2 | |
| | Aldrin | µg/l | 0.2 | <0.2 | <0.2 | |
| | Aldrin + Dieldrin | µg/l | 0.2 | <0.2 | <0.2 | |
| | b-BHC | µg/l | 0.2 | <0.2 | <0.2 | |
| | chlordane | µg/l | 2 | <2 | <2 | |
| | d-BHC | µg/l | 0.2 | <0.2 | <0.2 | |
| | DDD | µg/l | 0.2 | <0.2 | <0.2 | |
| | DDT | µg/l | 0.2 | <0.2 | <0.2 | |
| | Dieldrin | µg/l | 0.2 | <0.2 | <0.2 | |
| | Endosulfan I | µg/l | 0.2 | <0.2 | <0.2 | |
| | Endosulfan II | µg/l | 0.2 | <0.2 | <0.2 | |
| | Endosulfan sulphate | µg/l | 0.2 | <0.2 | <0.2 | |
| | Endrin | µg/l | 0.2 | <0.2 | <0.2 | |
| | Endrin aldehyde | µg/l | 0.2 | <0.2 | <0.2 | |
| | Endrin ketone | µg/l | 0.2 | <0.2 | <0.2 | |
| | g-BHC (Lindane) | µg/l | 0.2 | <0.2 | <0.2 | |
| | Heptachlor | µg/l | 0.2 | <0.2 | <0.2 | |
| | Hexachlorobenzene | µg/l | 0.2 | <0.2 | <0.2 | |
| | Methoxychlor | µg/l | 0.2 | <0.2 | <0.2 | |
| | Toxaphene | mg/l | 0.005 | <0.005 | <0.005 | |
| | Organochlorine pesticides EPAVic | µg/l | 2 | <2 | <2 | |
| | Other organochlorine pesticides EPAVic | µg/l | 2 | <2 | <2 | |
| | DDT+DDE+DDD | µg/l | 0.2 | <0.2 | <0.2 | |
| | Heptachlor epoxide | µg/l | 0.2 | <0.2 | <0.2 | |
| | | | | | | |
| Polycyclic Aromatic Hydrocarbons | Acenaphthene | µg/l | 1 | <1 | | |
| | Acenaphthylene | µg/l | 1 | <1 | | |
| | Anthracene | µg/l | 1 | <1 | | |
| | Benz(a)anthracene | µg/l | 1 | <1 | | |
| | Benzo(g,h,i)perylene | µg/l | 1 | <1 | | |
| | Benzo(k)fluoranthene | µg/l | 1 | <1 | | |
| | Chrysene | µg/l | 1 | <1 | | |
| | Benzo(b+j)fluoranthene | µg/l | 1 | <1 | | |
| | Dibenz(a,h)anthracene | µg/l | 1 | <1 | | |
| | Fluoranthene | µg/l | 1 | <1 | | |
| | Indeno(1,2,3-c,d)pyrene | µg/l | 1 | <1 | | |
| | Phenanthrene | µg/l | 1 | <1 | | |
| | Pyrene | µg/l | 1 | <1 | | |
| | PAHs (Sum of total) | µg/l | 1 | <1 | | |
| | Benzo(a) pyrene | µg/l | 1 | <1 | | |
| | Fluorene | µg/l | 1 | <1 | | |
| | Naphthalene-PAH | MG/KG | 0.001 | <0.001 | | |
| BTEX | Benzene | mg/kg | 0.1 | | | <0.1 |
| | Toluene | mg/kg | 0.1 | | | <0.1 |
| | Ethylbenzene | mg/kg | 0.1 | | | <0.1 |
| | Xylene (o) | mg/kg | 0.1 | | | <0.1 |
| | Xylene (m & p) | mg/kg | 0.2 | | | <0.2 |
| | Xylene Total | mg/kg | 0.3 | | | <0.3 |
| | Naphthalene-MAH | mg/kg | 0.5 | | | <0.5 |
| Total Petroleum Hydrocarbons | C6 - C9 | mg/kg | 20 | | | <20 |
| Total Recoverable Hydrocarbons | F1 (C6 - C10) | mg/kg | 20 | | | <20 |
| | F1 (C6 - C10) less BTEX | mg/kg | 20 | | | <20 |

Field Duplicates (Soil)
Filter: Lab_Report_Number in('822538')

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **Lab Report Number** | 822538 | 822538 | | Interlab_D | | 822538 | 822538 | | Interlab_D | | 29-Oct-07 | 29-Oct-07 | | Interlab_D | |
| | | **Field ID** | BH19_0.3 | QC01_210903 | **RPD** | QC02_210903 | **RPD** | BH17_0.3 | QC09_210903 | **RPD** | QC10_210903 | **RPD** | MW01 - 0.50 | QC01 | **RPD** | QC02 | **RPD** |
| | | **Sampled Date/Time** | 3/09/2021 | 3/09/2021 | | 3/09/2021 | | 3/09/2021 | 3/09/2021 | | 3/09/2021 | | 17/11/2021 | 17/11/2021 | | 17/11/2021 | |
| **Chem_Group** | **ChemName** | **Units** | **EQL** | | | | | | | | | | | | | | | |
| Metals | Arsenic | mg/kg | 2 : 5 (Interlab) | 3.5 | 2.6 | 30 | <5 | 0 | 3.1 | 4 | 25 | <5 | 0 | | | | | |
| | Cadmium | mg/kg | 0.4 : 1 (Interlab) | <0.4 | <0.4 | 0 | <1 | 0 | <0.4 | <0.4 | 0 | <1 | 0 | | | | | |
| | Lead | mg/kg | 5 | **110** | **65** | **51** | 86 | 24 | 75 | 78 | 4 | 87 | 15 | | | | | |
| | Mercury | mg/kg | 0.1 | <0.1 | <0.1 | 0 | <0.1 | 0 | <0.1 | <0.1 | 0 | <0.1 | 0 | | | | | |
| | Nickel | mg/kg | 5 : 2 (Interlab) | 20 | 9.7 | 69 | 8 | 86 | 5.1 | <5 | 2 | 9 | 55 | | | | | |
| | Copper | mg/kg | 5 | 25 | 15 | 50 | 14 | 56 | 23 | 15 | 42 | **74** | **105** | | | | | |
| | Zinc | mg/kg | 5 | 100 | 62 | 47 | 64 | 44 | 130 | 120 | 8 | 131 | 1 | | | | | |
| | Chromium (III+VI) | mg/kg | 5 : 2 (Interlab) | 53 | 39 | 30 | **16** | **107** | 8.9 | 8.9 | 0 | 6 | 39 | | | | | |
| | | | | | | | | | | | | | | | | | | |
| Organochlorine Pesticides | 4,4-DDE | mg/kg | 0.05 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 |
| | a-BHC | mg/kg | 0.05 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 |
| | Aldrin | mg/kg | 0.05 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 |
| | Aldrin + Dieldrin | mg/kg | 0.05 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 |
| | b-BHC | mg/kg | 0.05 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 |
| | chlordane | mg/kg | 0.1 : 0.05 (Interlab) | <0.1 | <0.1 | 0 | <0.05 | 0 | <0.1 | <0.1 | 0 | <0.05 | 0 | <0.1 | <0.1 | 0 | <0.05 | 0 |
| | d-BHC | mg/kg | 0.05 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 |
| | DDD | mg/kg | 0.05 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 |
| | DDT | mg/kg | 0.05 : 0.2 (Interlab) | <0.05 | <0.05 | 0 | <0.2 | 0 | <0.05 | <0.05 | 0 | <0.2 | 0 | <0.05 | <0.05 | 0 | <0.2 | 0 |
| | Dieldrin | mg/kg | 0.05 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 |
| | Endosulfan I | mg/kg | 0.05 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 |
| | Endosulfan II | mg/kg | 0.05 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 |
| | Endosulfan sulphate | mg/kg | 0.05 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 |
| | Endrin | mg/kg | 0.05 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 |
| | Endrin aldehyde | mg/kg | 0.05 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 |
| | Endrin ketone | mg/kg | 0.05 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 |
| | g-BHC (Lindane) | mg/kg | 0.05 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 |
| | Heptachlor | mg/kg | 0.05 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 |
| | Hexachlorobenzene | mg/kg | 0.05 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 |
| | Methoxychlor | mg/kg | 0.05 : 0.2 (Interlab) | <0.05 | <0.05 | 0 | <0.2 | 0 | <0.05 | <0.05 | 0 | <0.2 | 0 | <0.05 | <0.05 | 0 | <0.2 | 0 |
| | Toxaphene | mg/kg | 0.5 | <0.5 | <0.5 | 0 | | | <0.5 | <0.5 | 0 | | | <0.5 | <0.5 | 0 | | |
| | Organochlorine pesticides EPAVic | mg/kg | 0.1 | <0.1 | <0.1 | 0 | | | <0.1 | <0.1 | 0 | | | <0.1 | <0.1 | 0 | | |
| | Other organochlorine pesticides EPAVic | mg/kg | 0.1 | <0.1 | <0.1 | 0 | | | <0.1 | <0.1 | 0 | | | <0.1 | <0.1 | 0 | | |
| | DDT+DDE+DDD | mg/kg | 0.05 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 |
| | Heptachlor epoxide | mg/kg | 0.05 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 | <0.05 | <0.05 | 0 | <0.05 | 0 |
| Physical Parameters | Moisture Content (dried @ 103°C) | % | 1 | 9.6 | 9.5 | 1 | | | 4.1 | 5.6 | 31 | | | 23 | | | | |

*RPDs have only been considered where a concentration is greater than 0 times the EQL.
**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 200 (0-10 x EQL); 50 (10-20 x EQL); 30 ( > 20 x EQL) )
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

# APPENDIX H: CALIBRATION CERTIFICATES

## Oil / Water Interface Meter

**Instrument** **Interface Meter (30M)**
**Serial No.** **348741**

Air-Met Scientific Pty Ltd
1300 137 067

| Item | Test | Pass | Comments |
|---|---|---|---|
| Battery | Compartment | ✓ | |
| | Capacity | ✓ | |
| | | | |
| | | | |
| Probe | Cleaned/Decon. | ✓ | |
| | Operation | ✓ | |
| | | | |
| Connectors | Condition | ✓ | |
| | | ✓ | |
| Tape Check | Cleaned | ✓ | |
| | Checked for cuts | ✓ | |
| | | | |
| | | | |
| Instrument Test | At surface level | ✓ | |
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## *Certificate of Calibration*

This is to certify that the above instrument has been cleaned and tested.

***Calibrated by:*** **Siobhan Watts**

***Calibration date:*** **23/11/2021**

***Next calibration due:*** **22/01/2022**

## Oil / Water Interface Meter

**Instrument** **Interface Meter (30M)**
**Serial No.** **483922**

airmet
Air-Met Scientific Pty Ltd
1300 137 067

| Item | Test | Pass | Comments |
|---|---|---|---|
| **Battery** | Compartment | ✓ | |
| | Capacity | ✓ | |
| | | | |
| | | | |
| **Probe** | Cleaned/Decon. | ✓ | |
| | Operation | ✓ | |
| | | | |
| **Connectors** | Condition | ✓ | |
| | | ✓ | |
| **Tape Check** | Cleaned | ✓ | |
| | Checked for cuts | ✓ | |
| | | | |
| | | | |
| **Instrument Test** | At surface level | ✓ | |
| | | | |
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## *Certificate of Calibration*

This is to certify that the above instrument has been cleaned and tested.

***Calibrated by:*** **Braeden Curtis**

***Calibration date:*** **3/11/2021**

***Next calibration due:*** **2/01/2022**

## L.3 REMEDIATION ACTION PLAN

# 114 Newdegate Street, Greenslopes QLD

## Remediation Action Plan

Department of Veteran Affairs

**Reference: 754-BNEEN282781**

23 August 2023

# 114 NEWDEGATE STREET, GREENSLOPES QLD

## Remediation Action Plan

**Report reference number: 754-BNEEN282781**
23 August 2023

## PREPARED FOR

**Department of Veteran Affairs**
Gnabra Building
21 Genge Street
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## PREPARED BY

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## QUALITY INFORMATION

### Revision history

| Revision | Description | Date | Author | Reviewer | Approver |
|---|---|---|---|---|---|
| Rev A | Draft | 10 April 2022 | D Wilson | J Wicks | J Wicks |
| Rev B | Draft | 11 May 2022 | J Wicks | M Locke | J Wicks |
| Rev C | Draft | 12 May 2022 | J Wicks | DVA | J Wicks |
| Rev D | Draft | 27 March 2023 | J Wicks | Site Auditor | J Wicks |
| Rev E | Draft | 1 August 2023<br>7 August 2023 | I Neralic /J Wicks | Site Auditor | J Wicks |
| Rev F | Draft | 18 August 2023 | I Neralic /J Wicks | Site Auditor | J Wicks |
| Rev 0 | Final | 23 August 2023 | I Neralic /J Wicks | Site Auditor | J Wicks |

### Distribution

| Report Status | No. of copies | Format | Distributed to | Date |
|---|---|---|---|---|
| Final | 1 | PDF | Site Auditor, DVA | 23 August 2023 |

**Restriction on Disclosure and Use of Data**

This report should be read in conjunction with the attached “Important information about your Tetra Tech Coffey Environmental Report”

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# ACRONYMS/ABBREVIATIONS

| Acronyms/Abbreviations | Definition |
|---|---|
| ACM | Asbestos-containing materials |
| AF | Asbestos fines |
| ARCP | Asbestos Removal Control Plan |
| AMP | Asbestos Management Plan |
| CAF | Construction Ancillary Facility |
| CLM | Contaminated Land Management |
| FA | Fibrous asbestos |
| IL | Investigation Levels |
| LAA | Licenced asbestos assessor |
| LARC | Licenced asbestos removal contractor |
| NATA | National Association of Testing Authorities |
| PPE | Personal protective equipment |
| RPE | Respiratory protective equipment |

# 1. INTRODUCTION

The Department of Veteran Affairs (DVA) is planning the redevelopment of 114 Newdegate Street, Greenslopes (Lot 123-125 RP46047) ("the Site") for park/community use and pass the Land Title to Brisbane City Council (BCC). The location of the Site is shown in **Figure 1**, **Appendix A**.

The Site is listed on the Environmental Management Register (EMR) for Hazardous Contaminants as a result of organochlorine pesticides (OCPs) being previously detected in soil. The Site is not subject to a Site Management Plan (SMP) and the EMR listing does not include a Site Suitability Statement[1]. The Site currently contains two disused, large buildings with Asbestos Containing Materials (ACM).

Previous investigations have confirmed the presence of the OCPs Aldrin + Dieldrin which exceed the Schedule B1 *National Environment Protection (Assessment of Site Contamination) Measure 1999* (NEPM) Health-based Investigation Levels for recreational areas (HIL-C). OCPs are associated with historical application of termite barriers around buildings. Fragments of ACM and asbestos fines have also been reported in soil which exceed NEPM guidelines for recreational areas.

The Site is owned by the DVA and is therefore located on Commonwealth land. The Commonwealth Department of Agriculture, Water and the Environment (DAWE) is advising DVA, at the Commonwealth level, on their environmental requirements and obligations. DAWE has determined the demolition and removal of the contaminated soil on the site is a controlled action under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) and requires further information before making a decision on whether the action can proceed, and any required conditions if approval is granted.

In their Request for Additional Information (RFAI), DAWE has made a recommendation to remove OCPs to the laboratory limits of detect (LOR). DAWE confirmed this requirement in a meeting on the 9 December 2021. In 2023 DAWE confirmed the additional requirement to remove the Site from the EMR as practicable.

The RFAI includes the requirement for a Remediation Action Plan (RAP) and Environmental Management Plan (EMP[2]) for approval by DAWE. The purpose of the RAP is to describe:

- the remedial objectives
- the remedial actions (remediation plan) required to achieve the remediation objective for the Site
- waste disposal requirement and waste acceptance criteria
- health and safety requirements
- monitoring requirements
- validation
- regulatory approvals.

This document provides the RAP for the remediation of the Site and should be read in-conjunction with Tetra Tech Coffey (2022) *114 Newdegate Street Greenslopes Remediation Planning, Supplementary Investigation* (Supplementary Investigation).

The EMP describes the environmental controls to be implemented during demolition of the buildings on the Site and remediation. A Draft Construction EMP for these activities is provided in Enviropacific Services (2022) *Construction Environmental Management Plan, Department of Veterans' Affairs (DVA) – ACM*

[1] A Site Suitability Statement is a statement prepared by a Suitably Qualified Person (SQP) which describes the permitted uses of the land, and whether there is a requirement for a SMP. The Site Suitability Statement can also include a statement that the site is 'suitable for any use' (i.e. can be removed from the EMR).

[2] The EMP has been prepared by Enviropacific Services in the following document: *Construction Environmental Management Plan, Department of Veterans' Affairs (DVA) – ACM Removal, Demolition, Site Stripping and Soil Remediation Works; Newdegate and Headfort Streets, Greenslopes, QLD, 4120, 2022*.

*Removal, Demolition, Site Stripping and Soil Remediation Works; Newdegate and Headfort Streets, Greenslopes, QLD, 4120*.

## 1.1 ROLES AND RESPONSIBILITIES

The roles, personnel and responsibilities are provided in Table 1-1.

**Table 1-1 Roles, Personnel and Responsibilities**

| Role | Organisation | Responsible Persons | Responsibilities |
|---|---|---|---|
| **Client** | Department of Veteran Affairs | Dave Binney | • Engagement of Principal Contractor, SQP and Site Auditor.<br>• Compliance with statutory requirements. |
| **Principal Contractor / Remediation Contractor** | Enviropacific Services | Mick Merriman | • Implementation of RAP and EMP<br>• Employ a **Competent Person** who will be responsible for undertaking full-time supervision of the remediation work. The Competent Person must be experienced in the undertaking remediation works and have the necessary experience to:<br>○ visually identify soil materials containing suspect/potential ACM<br>○ visually identify soil materials which contain anthropogenic materials which pose physical hazards (i.e. sharp and angular) that are unsuitable for use in a park/open space<br>○ visually identify unforeseen contamination<br>○ implement the RAP and EMP including but not limited to the required controls to manage potential risks to human health and the environment. |
| **Suitably Qualified Person** | Tetra Tech Coffey | Jeremy Wicks | • Provide technical support to the Principal Contractor/Remediation Contractor in regard to contaminated land investigation and management<br>• Preparation of Disposal Permits for submission to DES by the Principal Contractor/Remediation Contractor<br>• Complete site inspections during remediation to check compliance against the RAP and EMP<br>• Undertake environmental monitoring during remediation<br>• Collect validation samples<br>• Prepare the Contaminated Land Investigation Document (CLID) and draft Site Management Plan (SMP) at the completion of remediation or Validation Report if the site is to be removed from the EMR. |
| **Licensed Asbestos Assessor (LAA)** | Tetra Tech Coffey | Laura Smith | • Review of contractor Safe Work Method Statement (SWMS) relating to asbestos aspects of the project and their Asbestos Removal Control Plan (ARCP)<br>• Asbestos and lead control air monitoring |

| Role | Organisation | Responsible Persons | Responsibilities |
|---|---|---|---|
| | | | • Clearance inspections (and clearance air monitoring where required) following the completion of demolition and remediation works<br>• Issue of an asbestos Clearance Report following the completion of demolition and remediation works |
| **DES-Approved Contaminated Land Auditor** | Epic Environmental | Louise Cartwright | • Undertake role of DES approved contaminated land auditor (CLA) and conduct auditing services in accordance with provisions of Chapter 12, Part 3A of the Environmental Protection (EP) Act 1994 |
| **Waste Facility** | Remondis – Ti Tree Bioenergy | Edward Hartigan | • Acceptance of contaminated soil to monocell disposal cell, as per DES soil disposal permit |
| | BMI | Peta Rutherford | • Stapylton: Acceptance of contaminated soil to lined disposal cell, as per soil disposal permit<br>• Acacia Ridge: Acceptance of concrete for recycling<br>• Redbank: Acceptance of soil for reuse |
| **Waste Transporter** | Not determined | - | • Transport material from site to waste facility, under soil disposal permit conditions, where applicable |

# 2. OBJECTIVES OF RAP

The objectives of this RAP are to:

- Set the remediation objectives and outline a strategy that will mitigate contamination risks associated with the identified soil contamination to:
  - remove the site's listing from the EMR, negating the requirement for a Site Management Plan (SMP)
  - make the site suitable for all/any use
  - facilitate the transfer of land title to BCC.
- Provide procedures and plans for implementation during proposed remedial works
- Outline minimum environmental safeguards to complete the proposed remedial works at the site in a manner that minimises negative impacts upon the health of site workers and surrounding receptors, safety and the environment.

# 3. TECHNICAL AND REGULATORY FRAMEWORK

This RAP has been developed in general accordance with the following legislation, industry standards, codes of practice, and guidance documents, where relevant:

**Commonwealth**

- *Environmental Protection and Biodiversity Conservation Act 1999*
- Environmental Protection and Biodiversity Conservation Regulations 2000
- National Environment Protection Council (NEPC) Act 1994 (NEPC Act 1994).

**Queensland**

- *Environmental Protection Act 1994*
- Environmental Protection (Air) Policy 2019
- Environmental Protection (Noise) Policy 2019
- Environmental Protection (Water and Wetland Biodiversity) Policy 2019
- Environmental Protection Regulation 2019
- *Waste Reduction and Recycling Act 2011*
- Waste Reduction and Recycling Regulation 2011

**Guidelines**

- National Environment Protection Council, *National Environment Protection (Assessment of Site Contamination) Measure, 1999 (amended April 2013) (ASC NEPM 2013)*.
- Queensland Department of Environment and Science (DES, 2019) *Queensland Auditor Handbook for Contaminated Land Module 6: Content requirements for contaminated land investigation documents, certifications and audit reports. Version 2.01*
- Western Australian Department of Health, *Guidelines for the Assessment, Remediation and Management of Asbestos Contaminated Sites in Western Australia, 2021* (WA DOH 2021).

Redevelopment of the Site is a Controlled Action under the Commonwealth EPBC Act 1994, and requires the removal of the property from the EMR and the removal of soil with OCPs to the laboratory limits of detect (LOR) as practicable.

Removal of the Site from the EMR is subject to the requirements of the Queensland EP Act 1994 and subordinate legislation. Removal of the Site from the EMR will require a Validation Report including a Site Suitability Statement, and Site Auditor Certification.

# 4. SITE DESCRIPTION

## 4.1 SITE IDENTIFICATION

The Site is located on the corner of Newdegate Street and Headfort Street, Greenslopes, Brisbane. The Site is shown in **Figure 2, Appendix A**.

Two buildings are located on the Site and comprise a former Main Hall Building and Accommodation Building (see **Figure 2**). The Site is currently not in use due to the condition of the buildings and the presence of ACM.

Site identification details are summarised in Table 4.1. The location of the site is shown on Figure 1.

**Table 4.1: Site Identification Details**

| Item | Detail | | |
|---|---|---|---|
| **Site Address** | 114 Newdegate Street, Greenslopes QLD | | |
| **Lot/Plan Number** | Lot 123 on RP46047 | Lot 124 on RP46047 | Lot 125 on RP46047 |
| **Address** | 53 Headfort Street, Greenslopes, QLD, 4120 | 53 Headfort Street, Greenslopes, QLD, 4120 | 53 Headfort Street, Greenslopes, QLD, 4120 |
| **Geographic coordinates** | Lat: -27.51339<br>Long: 153.04843 | Lat: -27.51336<br>Long: 153.04825 | Lat: -27.51334<br>Long: 153.04810 |
| **Area ($m^2$)** | 647 | 647 | 639 |
| **Historical use** | Veterans accommodation | Veterans accommodation | Veterans accommodation |
| **Current use** | Vacant land | Vacant land | Vacant land |
| **Future use** | Unknown | Unknown | Unknown |
| **EMR Listing** | Yes. Site has been subject to a hazardous contaminant (organochlorine pesticides) | Yes. Site has been subject to a hazardous contaminant (organochlorine pesticides) | Yes. Site has been subject to a hazardous contaminant (organochlorine pesticides) |
| **EMR Site ID** | 148512 | 148513 | 148514 |
| **CLR listing** | No | No | No |
| **Current Zoning** | NC Neighbourhood Centre[3] | | |
| **Future zoning** | Unknown | | |
| **Local Council** | Brisbane City Council | | |
| **Total Site Area** | 1,933 $m^2$ | | |
| **Site Owner** | Department of Veterans Affairs. | | |
| **Land Use** | The property currently consists of disused main hall and accommodation building. The site is currently vacant. | | |
| **Surrounding Land Uses** | North – Residential houses and small cafeteria<br>East – Residential houses<br>South – Residential houses<br>West – Health care (Greenslopes Private Hospital) | | |

[3] Brisbane City Plan 2014. Neighbourhood centre is a small mix of land uses to service residential neighbourhoods. It includes small-scale convenience shopping, professional offices, community services and other uses that directly support the immediate community.

## 4.2 ENVIRONMENTAL SETTING

Table 4.2 provides a summary of the environmental setting of the site as discussed in previous reports (refer to Section 7).

**Table 4.2: Summary of Environmental Setting**

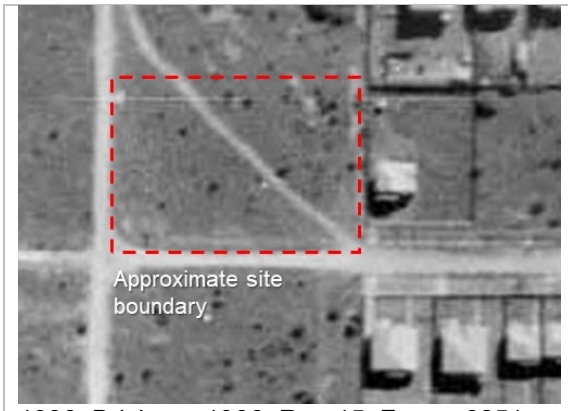
| Item | Description |
|---|---|
| **Topography & Drainage** | The Site is located at an elevation of approximately 25 m AHD. Topography in the vicinity of the Site falls in an approximate north west direction towards the Norman Creek (drain[4]) in Ekibin Park East located 840 m north west of the Site. |
| **Hydrogeology** | Based on the regional geology and the Site being located in an elevated area off Stephens Mountain, groundwater is expected to occur in the Neranleigh-Fernvale beds at a depth greater than 30 m below ground surface (bgs).<br>In the Supplementary Investigation groundwater was not intersected during the drilling of MW01[5] which was extended to 6 m bgs. No groundwater was encountered in the monitoring well when it was gauged approximately one week later on the 24 November 2021.<br>Extraction of use of groundwater in the vicinity of the Site is considered unlikely based on the supply of reticulated potable water in Brisbane. |
| **Regional Geology** | Regional geology of the Site and surrounding land is the Neranleigh-Fernvale beds (DCf). This geological formation is described as feldspathic and lithic meta-arenite, metasiltstone and conglomerate proximal turbidites, with structurally intercalated or stratigraphically underlying chert, jasper and basic meta-volcanics[6].<br>The topography of the surrounding area is dominated by Stephen Mountain[7] which has a height of 55 m AHD and is located west of the Greenslopes Hospital and approximately 400 m west of the Site. |
| **Local Geology** | Site investigations have identified the subsurface geology typically comprised reworked firm, dry, red brown, low plasticity silty clay fill interspersed with bedding sands and gravels in the upper profile. Fill material containing ash and slag-type materials in soil were recovered from the east and west of the site. Fill was identified toa maximum depth of 0.6 m.<br>Underlying the fill material was the apparent natural soils typically comprised firm, dry, red/brown, low plasticity silty clays transitioning to slightly moist medium plasticity orange/brown silty clays with occasional bands of sub rounded gravels.<br>Mudstone was encountered at 0.65m and at 2.4 m bgs in the north western portion of the site. |
| **Acid Sulfate Soils Risk and Classification** | The Australian Soil Resource Information System (ASRIS) defines the area to be an *Extremely Low Probability / Low Risk* |
| **Groundwater Bore Search** | The nearest registered groundwater bore (RN 133887) is located approximately 900 m west of the Site, and was installed in the Neranleigh-Fernvale beds. The bore report for this registered bore has been abandoned/destroyed and describes groundwater as being located at approximately 51 m depth (approximately -10 m AHD[8]) and 'salty'. |

## 4.3 SITE HISTORY SUMMARY

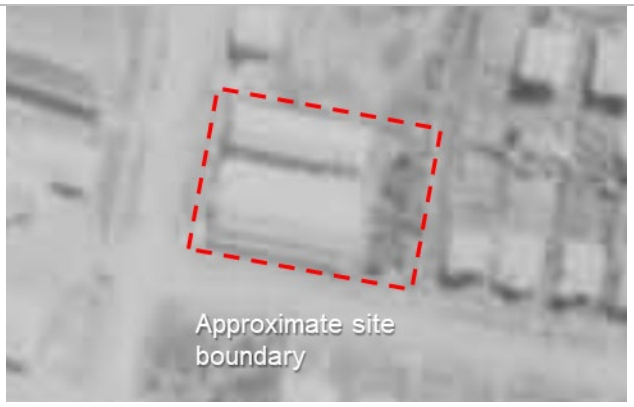
Historical aerial photography shows the Site was cleared land in 1936, and potentially in use for rural purposes (see image below). The site was acquired by the Commonwealth of Australia in 1945 for the

[4] Note Norman Creek is a concrete lined drain in Ekibin Park East
[5] MW01 was installed in September 2021
[6] https://asud.ga.gov.au/search-stratigraphic-units/results/14021, accessed 1 September 2021
[7] Stephens Mountain has an elevation of 55 m AHD and is located west of Greenslopes Private Hospital and is approximately 400 m from the Site (https://qtopo.information.qld.gov.au/, accessed 1 September 2021)
[8] RN 133887 is located at approximately 40 m AHD

development of the Australian Red Cross Centre (ARCC). The ARCC was developed on the Site in approximately 1945 and is shown in historical aerial imagery from 1946 (see image below).




1936: Brisbane 1936, Run 15, Frame 6251




1946: Brisbane 1946, Run 11A, Frame 34654

The ARCC was built to provide recreational services to military personnel who were patients at the 112th Australian Military Hospital. Post World War II, the ARCC was used for a similar purpose for service personnel and veterans. The buildings on the Site were later used for community purposes and to provide temporary accommodation for the families of patients at the Greenslopes Reparation Hospital[9]. The former ARCC buildings remain on the Site to the present day. It is not known whether historically there were smaller structures located on the Site which have subsequently been demolished and the source of any fill material used on the Site.

# 5. PREVIOUS INVESTIGATIONS

Previous investigations of the Site were completed on the Site in 2013, 2019 and 2021. The investigations were undertaken following guidance provided within the ASC NEPM and involved undertaking phased investigations to assess the presence and then potential extent of contamination at the Site.

**Coffey, 2013a. *Department of Veteran Affairs Phase 1 Contaminated Land Assessment, 114 Newdegate Street, Greenslopes Queensland***

This investigation included the completion of Phase 1 investigation based on the requirements of the ASC NEPM and comprised a desk study, site walkover and preliminary soil sampling.

**Coffey, 2013b. *Department of Veteran Affairs Phase 2 Contaminated Land Assessment, 114 Newdegate Street, Greenslopes Queensland***

This investigation comprised the completion of a Phase 2 investigation to further define the extent of contamination on the Site.

**Coffey, 2019. *Department of Veteran Affairs Delineation of Organochlorine Soil Impacts, 114 Newdegate Street, Greenslopes Queensland***
This investigation comprised the completion of a further define the extent of contamination on the Site, and whether there had been changes in the concentration of contaminants present on the Site in comparison to 2013.

**Tetra Tech Coffey, 2022. *114 Newdegate Street Greenslopes Remediation Planning, Supplementary Investigation* (Supplementary Investigation).**

[9] https://heritage.brisbane.qld.gov.au/heritage-places/806, accessed 16 July 2021.

This investigation comprised the completion of supplementary investigation to address data gaps required for remediation planning. The investigation was undertaken in accordance with Coffey (2020) *114 Newdegate Street Greenslopes Remediation Planning, Sampling, Analysis and Quality Plan, 19 July 2021*. The report on the Supplementary Investigation included data from the previous investigations.

Previous investigation sampling locations are shown in **Appendix A,** and the analytical data summarised in **Appendix B**.

The following is a summary of the findings of the Supplementary Investigation. For further information refer to the report on the Supplementary Investigation.

## 5.1 GROUND CONDITIONS

In open areas surface geology typically comprised sparse grass coverage with very thin (<10 mm) silty sand topsoil across the open areas of the investigation area (surrounding the Accommodation and Main Hall buildings) and concrete paved driveways in between and to the east of the Accommodation and Main Hall.

The subsurface geology in open areas typically comprised reworked firm, dry, red-brown, low plasticity silty clay fill interspersed with bedding sands and gravels in the upper profile. Fill material containing ash and slag-type materials in soil were recovered from the east and west of the Site. Intrusive locations where anthropogenic materials were encountered are shown in **Figure 3**, **Appendix A**.

Fill depths in the west ranged from 0.2m bgs (BH19) in the north western corner, 0.6m bgs (BH17) in the south western corner, 0.3m bgs (BH06) in the south eastern corner and 0.45m bgs (BH20) in the north western corner. In between the Accommodation and Main Hall buildings, the depth of fill material ranged from 0.15m (BH21) to 0.38m bgs (BH14).

Fill material was not encountered beneath the slab of the Main Hall Building.

Underlying the fill material was the apparent natural soils typically comprised firm, dry, red/brown, low plasticity silty clays transitioning to slightly moist medium plasticity orange/brown silty clays with occasional bands of sub rounded gravels.

## 5.2 CONTAMINATION

The maximum concentration of OCPs and metals which have been reported in previous investigations of the Site are summarised in the following table.

**Table 5-1 Maximum Reported Concentrations**

| Analyte (mg/kg ) | EIL – Res/Open Space (mg/kg) | HIL-A Residential Criteria (mg/kg) | HIL-C Recreational Criteria (mg/kg) | Soil Materials Surface to 0.2 mbgs (mg/kg) | Soil Materials Deeper than 0.2 mbgs (mg/kg) | No. Samples Exceeding HIL-A Surface to 0.2 m bgs / deeper than 0.2 m bgs | No. Samples Exceeding HIL-C Surface to 0.2 m bgs / deeper than 0.2 m bgs |
|---|---|---|---|---|---|---|---|
| **OCPs** | | | | | | - | - |
| 4,4-DDE | | | | 2.2 | 0.22 | - | - |
| a-BHC | | | | <0.1 | <0.05 | - | - |
| Aldrin | | | | 98 | 0.98 | - | - |
| Aldrin + Dieldrin | | 6 | 10 | 506 | 14 | 18 / 2 | 15 / 1 |
| b-BHC | | | | <0.1 | <0.05 | - | - |
| chlordane | | 50 | 70 | 140 | 0.5 | 2 / 0 | 1 / 0 |
| d-BHC | | | | <0.1 | <0.05 | - | - |
| DDD | | | | 2.1 | 0.15 | - | - |
| DDT | 180 | | | 23 | <0.2 | - | - |
| DDT+DDE+DDD | | 240 | 400 | 26.5 | 0.37 | - | - |
| Dieldrin | | | | 420 | 14 | - | - |
| Endrin aldehyde | | | | 0.24 | <0.05 | - | - |
| Endrin ketone | | | | 8.5 | 0.05 | - | - |

| Analyte (mg/kg ) | EIL – Res/Open Space (mg/kg) | HIL-A Residential Criteria (mg/kg) | HIL-C Recreational Criteria (mg/kg) | Soil Materials Surface to 0.2 mbgs (mg/kg) | Soil Materials Deeper than 0.2 mbgs (mg/kg) | No. Samples Exceeding HIL-A Surface to 0.2 m bgs / deeper than 0.2 m bgs | No. Samples Exceeding HIL-C Surface to 0.2 m bgs / deeper than 0.2 m bgs |
|---|---|---|---|---|---|---|---|
| Endosulfan I | | 270 | 340 | 0.26 | <0.05 | - | - |
| Endosulfan II | | | | <0.05 | <0.05 | - | - |
| Endosulfan sulphate | | | | <0.1 | <0.05 | - | - |
| Endrin | | 10 | 20 | 6.5 | 0.1 | - | - |
| g-BHC (Lindane) | | | | <0.1 | <0.05 | - | - |
| Heptachlor | | 6 | 10 | 1 | <0.05 | - | - |
| Heptachlor epoxide | | | | 3.4 | 0.26 | - | - |
| Hexachlorobenzene | | 10 | 10 | <0.1 | <0.05 | - | - |
| Methoxychlor | | 300 | 400 | <0.2 | <0.2 | - | - |
| Toxaphene | | 20 | 30 | <1 | <1 | - | - |
| Total OCP | | | | 527.38 | 14.52 | - | - |
| **Metals** | | | | | | - | - |
| Arsenic | 100 | 100 | 300 | 32 | 23 | - | - |
| Cadmium | | 20 | 90 | 1.4 | <1 | - | - |
| Chromium (III+VI) | 245 | 100 | 300 | 100 | 180 | Note 2 | - |
| Copper | 196 | 6000 | 17000 | 33 | 74 | - | - |
| Lead | 1112 | 300 | 600 | 160 | 120 | - | - |
| Mercury | | 10 | 13 | 0.1 | <0.1 | - | - |
| Nickel | 287 | 400 | 1200 | 66 | 84 | - | - |
| Zinc (Note 1) | 420 | 7400 | 30000 | 2000 | 160 | - | - |

Note 1: Zinc exceeded the EIL in three samples SS01, SS02 and HA11. There were no zinc exceedences of HIL-A and HIL-C.
Note 2: Refer to 'Note on Chromium' included in this section. The supplementary investigation concluded that Chromium is present as a Chromium III rather than Chromium IV and therefore the HILs in the NEPM (which are for Chromium IV) do not apply.

Sample locations with exceedences of HIL-A and HIL-C criteria are summarised in the following table.

**Table 5-2 Samples Locations Exceeding HIL-A and HIL-C Criteria**

| Sample Depth | Analyte | Exceeded HIL-A | Exceeded HIL-C |
|---|---|---|---|
| **Upper soil (0.0-0.2m** | Aldrin + dieldrin | HA07/SA12<br>HA09<br>HA10<br>8-0.0<br>9-0.0<br>9P-0.0 (HA09)<br>10-0.0<br>11-0.0<br>13P-0.0 (HA07)<br>13P-0.2 (HA07)<br>14P-0.0 (HA10)<br>QC07 (DUP 14P-0.0 )<br>QC08 (TRIP 14P-0.0 )<br>15-0.0<br>34-0.0<br>36-0.0<br>BH14_0.1<br>BH21_0.1 | HA07/SA12<br>HA09<br>HA10<br>8-0.0<br>9-0.0<br>9P-0.0 (HA09)<br>10-0.0<br>11-0.0<br>13P-0.2 (HA07)<br>14P-0.0 (HA10)<br>QC07 (DUP 14P-0.0 )<br>QC08 (TRIP 14P-0.0 )<br>34-0.0<br>36-0.0<br>BH21_0.1 |
| | Chlordane | HA02, HA03, | HA03 |
| | Chromium (III + VI) | Note 2 | Note 2 |
| **Deeper soil** | Aldrin + dieldrin | 10-0.45, 11-0.45 | 11-0.45, |

| Sample Depth | Analyte | Exceeded HIL-A | Exceeded HIL-C |
|---|---|---|---|
| (>0.2m) | Chlordane | Nil | Nil |
| | Chromium (III + VI) | Note 2 | Note 2 |

Notes:

1) Sample location with a concentration at the health guideline level.

2) Refer to 'Note on Chromium' in this section in regard to chromium.

It is noted that samples exceeding HIL-C also exceed HIL-A.

Soil material with OCPs which exceed human health-based guidelines for park/community use (NEPM HIL-C) are predominately located in the upper soil deposits between the Accommodation Building and Main Hall Building, and in a small area south of the Main Hall Building and along the western perimeter of the Accommodation Building.

Soil material with OCPs which exceed human-health based guidelines for residential use with accessible gardens (NEPM HIL-A[10]) are more widely distributed and generally include upper soil materials north of the Main Hall Building and an area south of the Main Hall Building.

Elevated concentrations of OCPs are generally limited to soil materials less than 0.2 m below ground surface (bgs). The occurrence of elevated concentrations of OCPs in shallow soil materials is consistent the application of termiticides into the shallow soil materials and the chemical properties of OCPs detected which readily absorb to soils (particularly soils with high organic matter) and have low solubility (and therefore low leachability).

OCPs were not reported above the limit of reporting (LOR) in soil samples from the following areas:

- the concrete slab along the driveway along the eastern boundary of the Site (BH06 to BH08)
- the south eastern corner (BH16).
- the western boundary of the Site (BH17 to BH19).

Fragments of Asbestos Containing Materials (ACM) and asbestos fines which exceed the nominated investigation levels (ILs) of 0.01% w/w and 0.001% w/w, respectively, have been reported in previous investigations of the Site at the following locations (refer to **Figure 3, Appendix A**):

- SS01
- SS02
- SA01/A01
- Main Hall (under building)
- Accommodation Building (under building)
- Unsealed External Areas
- A04, A06, A10 (15)

Fragments of ACM were not observed in the 2021 investigation and asbestos was not reported in soil samples analysed in 2021. As a precautionary measure the upper soil deposits should be considered to contain ACM and there would also be the potential for fragments of ACM to be displaced into the upper soil deposits during demolition of the existing buildings.

Soil materials in the upper ground deposits (~ <0.25 m bgs) are considered to pose an unacceptable risk to human health where OCPs are present which exceed the NEPM HIL-C and due to the potential for ACM. OCPs also pose a potential unacceptable risk to ecological receptors based on the adopted guidelines.

[10] Compliance with NEPM HIL-A guidelines will be required if the Site is to be removed from the EMR.

Soil samples from previous investigations reported concentrations of metals which were below the NEPM HIL-C health guidelines.

Previous investigations of the Site did not report the detection of other potential contaminants of concern (PCOC) including:

- organophosphate pesticides (OPPs)
- poly aromatic hydrocarbons (PAH) including soil materials containing a slag type material
- benzene, toluene, ethyl benzene and xylenes (BTEX)

Sample location SS04 in Coffey (2013) reported TRH in the C16-C34 fraction with concentration which was below the adopted HIL-A, HIL-C and EILs. No visual or olfactory signs of contamination were observed at this sampling location (and elsewhere on the site) however organic matter was present.

The TRH previously reported is potentially a false positive, relating to organic matter within the shallow soil profile for the following reasons:

- no visual or olfactory signs of hydrocarbon contamination were observed at this sampling location
- the site history has not identified storage/use of hydrocarbons
- other potential organic contaminants (BTEX and PAH) where not reported in the sample analysed (or other samples analysed)
- the sample was collected from a depth and location where organic matter would be present.

Fill containing anthropogenic materials which pose physical hazards (sharp and angular) have been observed on the site and are considered to be unsuitable for use in a park/open space and should also be removed from the Site where there is a likelihood that future users of the Site may come into contact with these materials. Conceptually this is considered to be to approximately 0.5 m depth based on the assumption that the maximum depth community members would dig to would be 0.4 m if undertaking double digging for a garden bed.

HIL-D criteria for dieldrin was exceeded in four sampling locations (HA10, 9, BH21, HA09) are shown in Figure 3, Appendix A. HIL-D criteria is used as an acceptance criteria by the BMI Group at its Redbank Resource Recovery Facility (refer to Section 7.4).

With the exception of chromium, all samples from soil material deeper than 0.2 m bgs reported metals with concentrations which were below the NEPM HIL-A and HIL-C guidelines, and the EILs.

### Note on Chromium

Chromium was below the NEPM-HIL C and EILs, and exceeded the NEPM HIL-A in the following samples: BH06_0.5, BH07_0.3, BH08_0.3, BH16_0.5, BH21_0.3, and BH21_0.5. All of these samples are from natural materials, and at these locations the concentration of chromium was found to increase with depth.

The NEPM HIL-A guideline is based on Chromium VI which is commonly used as a solvent within industrial processes. It is noted that the more toxic Chromium VI readily reduces to the less toxic Chromium III. As no source of chromium has been identified in fill materials and there is no previous industrial use of the Site, the source of chromium in these samples is considered to be natural and Chromium III. Analysis of Chromium (Total) and Chromium VI was undertaken from soil samples collected from MW01 at 0.25, 0.5, 0.75 and 1 m bgl. Concentrations of Chromium (Total) increased with depth however no positive detection of Chromium VI was reported. This finding supports the assumption that chromium reported in soil samples is Chromium III.

Chromium III is an essential nutrient and does not have a guideline value in the NEPM. The US EPA regional screening level (THQ 0.1)[11] for Chromium III is 12,000 mg/kg. All soil samples had concentrations of chromium below this guideline.

## 5.3 GROUNDWATER

A groundwater monitoring well was installed in the north western corner of the Site to 6 m bgs. Groundwater was not intersected and is likely to be at a depth greater than 30 m bgs. Risk to groundwater receptors is considered to be low based on no shallow water bearing zone being found on the Site and the low leachability of the OCPs present.

[11] https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables, accessed 2 December 2021

# 6. CONCEPTUAL SITE MODEL

Historical termiticides applied to Site and asbestos containing materials (ACM) (most likely from buildings on the Site) are considered to be the **primary sources** of contamination on the Site.

Contamination present in soil and other environmental media as a result of the primary source is considered as a **secondary source** of **contamination**. Contaminant of concern associated with the application of termiticides on the Site include OCPs (mainly aldrin and dieldrin), and asbestos. Other OCPs present in soil included DDT+DDE+DDD, endosulfan I, endrin, heptachlor, endrin aldehyde and endrin ketone.

Once in soil, contamination has the potential to be distributed through **transportation pathways** such as erosion and deposition (wind and water) and the leaching of contaminants to groundwater and surface water, and anthropogenic activities which involve the movement of soil materials such as site redevelopment. Transportation pathways can also be considered as secondary sources of contamination (e.g. contamination in groundwater).

Based on the Supplementary Investigation, the transportation pathways considered to be relevant to the Site include erosion and deposition (wind and water), and anthropogenic activities which involve the movement of soil materials such as site redevelopment.

The leaching of contaminants to groundwater and surface water is considered to be low risk based on the OCP contaminants present which strongly absorb to soil and have low solubility/leachability. No shallow groundwater water bearing zone has been identified within 6 m of the ground surface.

**Receptors** could potentially be exposed to contaminants derived from the disturbance of contaminants present in within soil.

Potential receptors considered applicable redevelopment of the Site include:

- workers involved with the site redevelopment work
- persons involved with the cleaning clothing, vehicles and equipment used in redevelopment
- general public including persons who could be subject to contaminated media generated during redevelopment (e.g. dust)
- ecological receptors including native and domestic terrestrial flora and fauna
- surface water receptors.

Post redevelopment potential receptors which may be exposed to contaminants in soil include:

- general public accessing the park and community facilities
- persons involved with maintenance of the park and community facilities
- persons who work at the community facilities
- persons who could be subject to contaminated media generated from the Site (e.g. dust)
- ecological receptors including terrestrial and aquatic flora and fauna (including native and domestic terrestrial fauna).
- surface water receptors.

**Exposure pathways** for human receptors include dermal contact, ingestion, inhalation (dust and fibres) and plant uptake mechanisms. For a community park setting the consumption of home grown produce may potentially occur, and therefore the consumption of produce, and ingestion of soil adhered to produce should also be considered.

Exposure pathways for ecological receptors include direct contact and ingestion for invertebrates. Exposure pathways for vertebrates (mammals/birds) include bioaccumulate OCPs through the consumption of organisms and/or direct contact with the soil.

# 7. REMEDIATION GOALS

## 7.1 REMEDIATION STRATEGY

The Commonwealth Department of Agriculture, Water and the Environment (DAWE) has determined the demolition and removal of the contaminated soil on the site as a controlled action under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) and requires further information before making a decision on whether the action can proceed, and any required conditions if approval is granted. In their Request for Additional Information (RFAI), DAWE has made a recommendation to remove OCPs to the laboratory limits of detect (LOR). DAWE confirmed this requirement in a meeting on the 9 December 2021. This requirement has been incorporated into the remediation strategy. In 2023 DAWE confirmed the preference to remove the property from the EMR.

The remediation strategy for the Site has been developed based on DAWE requirement to remove OCP contaminated soil to the LOR (as practicable), remove the property from the EMR and to make it suitable for park and community use. This includes the removal of soils which are unsuitable for park use based on the presence of physical hazards.

Soils removed from the Site are to be disposed to a licenced landfill or beneficially reused at a resource recovery facility (refer to Section 8). Other potential remediation options such as containment (e.g. capping) were not considered based on the requirement from DAWE to remove the contaminated soil from the Site and the property from the EMR. Alternatives to disposal to a licenced landfill such as thermal destruction are considered cost prohibitive and were not considered further.

Soils removed from the Site will need to be replaced with fill imported from a certified clean source (e.g. quarry, commercially available topsoil).

During the remediation of the property if it becomes apparent that it is not practicable to remove the property from the EMR, a decision will be made in-conjunction with DVA and the Site Auditor on whether the property can remain on the EMR with a Site Management Plan (SMP).

## 7.2 REMEDIATION OBJECTIVE

The primary objectives for the remediation of the Site are to make it suitable for park and community use, and to remove the OCP contaminated soil from the Site as practicable such that the property can be removed from the EMR.

## 7.3 REMEDIATION CRITERIA

For OCPs the proposed remediation criteria is a concentration not above (i.e. non-detectable) the standard LOR from the NATA accredited laboratory Eurofins or ALS. For Eurofins these range from 0.05 mg/kg to 0.1 mg/kg. If it is not practicable to achieve non-detectable concentration(s) for OCPs, the remediation criteria for OCPs will be the NEPM residential land use (HIL-A) such that the property can be removed from the EMR.

For all other potential contaminants, the proposed remediation criteria for the Site are the NEPM HIL-A. Compliance with the NEPM HIL-A guidelines will be required if the Site is to be removed from the EMR.

In the unlikely event that OCP contaminated soil cannot be removed to extent to allow removal of the Site from the EMR, the remediation objective will be to 'remediate the site to make it suitable for parkland use (i.e.

meet adopted NEPM HIL-C guidelines). This may mean the Site remains on the EMR with a Site Management Plan (SMP) to ensure it is suitable for parkland use.

### Note on ecological receptors

Following implementation of the proposed remediation strategy it is considered that there would be no plausible exposure pathway for ecological receptors on the basis that the majority of the contaminant source would have been removed from the Site.

### Note on groundwater and surface water receptors

OCPs have low solubility/leachability and therefore low risk of leaching into surface water and groundwater is low and not of concern.

Post remediation the risk to surface water and groundwater receptors is considered to be low based on the removal of the contaminant source from the Site, the reinstatement of the Site with clean fill, and stabilisation of soil materials with ground cover and/or sealed areas. Accordingly no remediation criteria are considered to be required for the protection of groundwater and surface water receptors.

# 8. REMEDIATION PLAN

For remediation planning the Site has been segregated into a number of areas as shown in **Figure 4, Figure 4A** and **Figure 4B**, **Appendix A**.

Remediation will take place following the completion of demolition works and the removal of the buildings from the Site. During the demolition works the concrete hardstand in Area 4A and 4B will be retained. The hardstand from these areas is to be removed once excavation has been completed in Area 1, Area 2A/2B and Area 3.

The proposed sequence of remediation works includes:

- Site establishment and set up of environmental controls required during remediation works
- Clearing of shrubs/trees around the Site
- Excavation contaminated materials
- Management of excavated materials
- Validation sampling[12] including a hold point to determine if further excavation is required to the achieve remediation objective.
- Reinstatement of excavated areas with clean fill sourced from a certified quarry, clean topsoil from a certified source, and establishment of an appropriate ground cover.
- Discussion with Site Auditor on whether the Site is to remain on the EMR or can be removed from the EMR.
- Preparation of a Contaminated Land Investigation Document (CLID) including a Site Suitability Statement and Draft SMP (if required) if the Site is to remain on the EMR, or Preparation of a Validation Report including a Site Suitability Statement if the property is to be removed from the EMR.
- Preparation of the Site Auditor Certification and submission of the documentation to the Department of Environmental and Science (DES).
- Provide copies of the documentation submitted to DES to DAWE.

The following sections summarise the proposed remediation works.

[12] Note validation sampling will be undertaken progressively during site excavation work

## 8.1 SITE ESTABLISHMENT

The Principal Contractor/Remediation Contractor will be responsible for undertaken undertaking, supervising and/or directing site establishment.

Site establishment will include the following:

- Work area fencing, warning signage and temporary site facilities.
- Occupational health and safety controls and monitoring.
- Environmental monitoring and controls.
- Preparing stockpiling areas (if required).
- Vehicular transit routes onto and off the site.
- Location, isolation, relocation, protection and/or termination of services potentially affected by the remediation/redevelopment works, if any.
- Contingency planning and controls to address unexpected finds.

## 8.2 VEGETATION CLEARING

The Principal Contractor/Remediation Contractor will be responsible for undertaken undertaking, supervising and/or directing vegetation clearing.

Clearing of shrubs/trees around the Site is to be removed prior to the commencement of excavation. Vegetation is to be removed in accordance with the requirements set out in Ecological Australia (ELA) (2021) *Greenslopes DVA Remediation Planning*.

Shrubs/trees are to be cut off at ground surface such that root and soil material is not removed with the vegetation. Root and soil materials are to be removed in accordance with Section 7.3.

## 8.3 MATERIALS REQUIRING REMEDIATION AND MANAGEMENT OF EXCAVATED MATERIALS

The Principal Contractor/Remediation Contractor will be responsible for undertaking, supervising and/or directing the excavation works.

Based the site investigation data and discussions with recipient waste management facilities materials which require remediation have been identified and are summarised in **Appendix G**.

Materials requiring excavation from ground surface to 0.25 m below ground surface (bgs) are shown in **Figure 4A** and summarised in **Table 8-1**. **Table 8-1** also provides a summary of where the materials are to be disposed under the DES approved Disposal Permits held by the Principal Contractor/Remediation Contractor[13]. A copy of the Disposal Permits is provided in **Appendix D**.

Materials requiring excavation from 0.25 m to 0.4 m bgs are shown in **Figure 4B** and summarised in **Table 8-2**. Materials excavated from these depths are to be recovered for beneficial re-use at the BMI Group at the Redbank Resource Recovery Facility. BMI Group has advised that this facility can receive soil materials with contaminant concentrations below NEPM HIL-D human health guidelines for beneficial re-use at this facility for future commercial/industrial use, and provided the material does not contain ACM and demolition materials such as broken brick, concrete, timber etc. Tabulated data which includes the NEPM HIL-D criteria has been included in **Appendix B**.

[13] Tetra Tech Coffey prepared the Disposal Permit application and Waste Levy Exemption on behalf of the Principal Contractor/Remediation Contractor. The Principal Contractor/Remediation Contractor is the holder of the Disposal Permit and Waste Levy Exemption.

**Table 8-1 Materials Requiring Remediation Ground Surface to 0.25 m bgs as per Figure 4A**

| Area | Excavation Depth (m bgs) | Approximate Bank Excavation Volume ($m^3$) | Disposal Permit / Waste Management Facility OR Resource Recovery Facility |
|---|---|---|---|
| **Area 1A** | 0.25 | 20 | Disposal to Monocell under Disposal Permit **SDP010002171**. Waste Management facility is located at:<br>Ti Tree bioENERGY facility,<br>55 Champions Way, Willowbank, QLD<br>(Lot 3 on SP167885 & Lot 8 on RP24574) |
| **Area 1B** | 0.25 | 30 | |
| **Area 1C** | 0.25 | 10 | |
| **Area 3C** | 0.25 | 10 | |
| ***Sub-total (Monocell)*** | | *70 (Note 2)* | |
| **Area 1** | 0.25 | 195 | Disposal to Lined Landfill under Disposal Permit **SDP010002201** located at:<br>BMI Group<br>Stapylton Resource Recovery Facility<br>144 Rossmanns Road, Stapylton, QLD<br>(Lots 2 and 3 SP279441) |
| **Area 2** | 0.2 | 100 | |
| **Area 3A** | 0.2 | 25 | |
| **Area 3B** | 0.2 | 35 | |
| ***Sub-total (Lined Landfill)*** | | *355 (Note 2)* | |
| **Area 4A** | 0.2 | 70 | Recovery for beneficial reuse at BMI Group at the Redbank Resource Recovery Facility |
| **Area 4B** | Note 1 | - | |

Note 1: Materials from Area 4B require removal where **Unsuitable Fill Materials** are present. Unsuitable Fill Materials are those which contain anthropogenic materials which pose physical hazards (sharp and angular) are unsuitable for use in a park/open space are also potentially present and are herein referred to in this RAP as "Unsuitable Fill Materials".

Note 2: A contingency of 50% has been applied for the monocell material. Disposal permit volumes are based on ex-situ volumes which include an assumed 1.4 bulking factor.

**Table 8-2 Materials Requiring Remediation 0.25 to 0.4 m bgs as per Figure 4B**

| Area | Excavation Depth (m bgs) | Approximate Bank Excavation Volume ($m^3$) | Resource Recovery Facility |
|---|---|---|---|
| **Area 1** | 0.25-0.4 | 155 | Recovery for beneficial reuse at BMI Group at the Redbank Resource Recovery Facility |
| **Area 2** | 0.25-0.4 | 120 | |
| **Area 4A** | Note 1 | - | N/A |
| **Area 4B** | Note 1 | - | N/A |

Note 1: Materials from Area 4A/4B require removal where Unsuitable Fill Materials are present.

***Important Note:*** *Further excavation to that described in* ***Table 8-1*** *and* ***Table 8-2*** *may be required based on the validation data (refer to* ***Section 8.7****) and the presence of* ***Unsuitable Fill Materials****.*

## Waste Levy Exemption

A waste levy exemption has been granted (Exempt Waste Number: 230021CSE) for the disposal from the site to a maximum of 910 tonnes. The Waste Levy Exemption applies to both Disposal Permit SDP010002171 (Monocell) and SDP010002201 (Lined Landfill) and is provided in **Appendix E**.

Materials which are recovered for beneficial reuse at the Redbank Resource Recovery Facility are not subject to the Waste Levy.

## Excavation Sequence

The Principal Contractor/Remediation Contractor has proposed to sequence excavations from the south to the north of the site as practicable.

## 8.4 TEMPORARY STOCKPILING

The Principal Contractor/Remediation Contractor will be responsible for temporary stockpiling.

Where practicable, excavated materials will be excavated and directly loaded onto DES licenced trucks for transport to the DES licenced disposal and/or resource recovery facility.

Where temporary on-site stockpiling is required, stockpiling is to be undertaken in accordance with the EMP.

If temporary stockpiles are required to be generated, then they shall be established:

- Away from adjacent properties.
- On concrete, asphalt or geo-textile fabric. Stockpiles shall not be placed directly on natural/uncontaminated soil as cross contamination could occur.

Stockpiles should:

- Not exceed the height of site boundary hoarding to minimise dust generation.
- Be less than 2 m in height with side slopes to be a maximum ratio of 1V:2H.
- Be appropriately labelled to minimise the risk of cross contamination.
- Be positioned and formed to minimise potential for stockpile erosion where possible.

At the end of each day, stockpiles should be wetted down, covered with 200 µm polythene sheeting or geofabric and secured to prevent the soil cover being removed by wind, or unauthorised persons.

Additional controls (e.g. bunding) would be required for longer-term management of stockpiles. If stockpiles are to be kept for longer-term (i.e. greater than 1 month) then this management plan shall be updated to include additional controls.

## 8.5 UNFORESEEN CONTAMINATION

A Competent Person[14] must be present on-site during excavation to identify unforeseen contamination including but not limited to:

- visual/olfactory signs of commercial/industrial/medical wastes including chemical containers, bulk chemicals, hospital/medical wastes, industrial wastes, bulk ACMs, fuel/oily products, etc.
- visual or olfactory signs of hydrocarbon contamination
- ACM (if not an occasional, non-friable fragment).

If unforeseen contamination is encountered, excavation of these materials is to cease, and the SQP contacted to undertake an investigation of the materials to determine the required controls for the appropriate management of these materials, and approvals for the disposal of these materials (if required).

## 8.6 MATERIAL MOVEMENTS AND TRACKING

The Principal Contractor/Remediation Contractor shall implement a system for the tracking of materials which satisfies the requirements of the DES approved Disposal Permit(s) (refer to Appendix D), waste levy exemption (refer to Appendix E), and recipient waste management facility. Material tracking is to include but not limited to:

- source location of excavated material

[14] Refer to Section 1.3 for the fefinition of Competent Person

- volume of excavated material
- destination of excavated material
- records of waste tracking (e.g. weighbridge dockets, waste transport certificates, etc.) from the waste transporter and the waste receiver.

Records of material tracking (including records of trucks, dates, source of material and weighbridge dockets) are to be provided to the SQP at the completion of remediation.

## 8.7 VALIDATION SAMPLING

Validation sampling will be undertaken progressively during remediation.

Following the excavation of the material across the Site a visual inspection shall be undertaken by the SQP of the completed excavations and materials remaining on the Site.

Photographs of the completed excavations will be taken.

Validation samples shall be collected from soil exposed at the base of the excavation by the SQP or suitably trained practitioners under the guidance of the SQP. Validation sampling will include the collection of up to 80 soil samples over a regular sampling grid (i.e. approximately 1 sample per 25 $m^2$ over the base of the excavation). Blind intra-lab and inter-lab duplicate samples will also be collected and analysed for chemical contaminants and asbestos (refer to Table 8-3 for sampling frequency). Validation samples will be collected along the walls of the northern and eastern site boundaries from at 0.1 m depth at 5 m spacings along the wall of the excavations.

The samples will be analysed at a National Association of Testing Authorities (NATA) accredited laboratory[15] for the following:

- metals (arsenic, cadmium, chromium (total and VI), copper, lead, nickel, zinc, mercury)
- OCPs
- Asbestos (quantification as per method described in Section 11.3.2, Schedule B2 of the ASC NEPM).

***HOLD POINT***

Following the collection of validation samples the excavations are to kept open by the Remediation Contractor pending instruction from the SQP.

The SQP will review and discuss the validation sampling results with the Site Auditor and DVA.

Where validation sampling results demonstrate compliance with the remediation objectives the SQP will inform the Remediation Contractor that reinstatement of excavated areas can commence in accordance with **Section 7.7** of the RAP.

Where validation sampling results do not comply with the remediation objectives the SQP (in consultation with DVA and the Site Auditor) will inform the Remediation Contractor to:

- complete further excavation to achieve the remediation objective. This will include instruction on the excavation to be completed in accordance with Section 7.4 to 7.6 of this RAP. OR
- reinstatement of excavated areas can commence in accordance with **Section 7.7** of the RAP.

### 8.7.1 Sample Nomenclature

Samples collected will be identified by a unique sample identifier. The sample identifier will be included on all sample jars and associated paperwork including field sheets and chain of custody forms.

Sample labels will be completed in indelible ink and will include the following information:

[15] NATA accredited laboratories to be used included Australian Laboratory Services and Eurofins.

- Project number.
- Sample identifier.
- Date of sample collection (day/month/year).
- Initials of sampler.

Quality control samples will be labelled:

- Intra-laboratory and inter-laboratory duplicates: “DUP” + sequence number (i.e. DUP01, DUP02 etc.).
- Trip blanks: “TB” + sequence number (i.e. TB01, TB02 etc.).
- Rinsate blanks: “RB” + sequence number (i.e. RB01, RB02 etc.).

### 8.7.2 Sample Storage and Preservation

Soil samples collected for chemical analysis shall be placed into laboratory prepared and supplied sample containers (i.e. jars, bags and bottles) with teflon-lined lids, where required. Soil samples collected for asbestos analysis shall be placed in clean, zip-lock plastic bags supplied by the laboratory.

Sample containers will be placed directly into an ice filled cooler and transported to the laboratories under chain of custody protocol. All samples are required to be documented as received by the laboratory chilled and intact.

### 8.7.3 Sampling Equipment Decontamination Procedures

Non-disposable sampling equipment (e.g. trowel, shovel etc.) will be decontaminated between each sampling location as follows:

- Scrub all surface of the equipment with a wire brush to remove soil and/or gross contamination;
- Scrub the equipment in a bucket filled with a solution of phosphate free detergent (e.g. Liquinox), using a brush that can reach all surfaces; and
- Rinse the equipment in clean potable water.

### 8.7.4 Field Quality Control Samples

Field quality and laboratory quality assurance / quality control (QA/QC) samples to be collected are described in the following table.

**Table 8-3 Field and Laboratory QAQC**

| Item | Acceptable Limit |
|---|---|
| **Analysis of blind (intra-laboratory) duplicates and split (inter-laboratory) duplicates.** | Rate of 1:20 primary soil samples for the same analysis of primary samples;<br>Calculation of relative percentage differences between primary and duplicate samples. RPD results for soil samples:<br>• No Limit (where the average concentration is 0-10 x laboratory limit of reporting (LOR);<br>• 50% (where the average concentration is 10-20 x laboratory LOR); and<br>• 30% (where the average concentration is > 20 x laboratory LOR).<br>RPDs will be considered where a concentration is greater than 10 times the LOR. |
| **Analysis of rinsate blanks** | Where non-disposable equipment is used, at least one (1) sample per batch of soil sampling or material type where the source and sampling methods are consistent; and |

| | |
|---|---|
| | Results less than the laboratory LOR. |
| **Trip Spikes** | Volatile compounds are not contaminants of concern for the Site and accordingly trip spikes are not considered to be required in the QAQC sampling program. |
| **Analysis of laboratory prepared trip blanks** | At least one (1) sample per batch for soil samples submitted.<br>Results less than the laboratory LOR. |
| **Analysis of laboratory blanks, surrogates, reference and control samples** | The laboratories will be required to conduct their own internal quality program for assessment of the repeatability of the analytical procedures and instrument accuracy under their NATA accreditation. This will include analysis of laboratory blank samples, duplicate samples, spike samples, control samples and surrogate spikes. The laboratory QA/QC procedures and results will be described within the laboratory reports.<br>The laboratory internal QA/QC sample results will be reviewed for comparison with the laboratory's NATA guidelines and Schedule B3 of the ASC NEPM 2013. |
| **Laboratories and methods used** | NATA accredited for the method. Methods should be in accordance with amended ASC NEPM 2013. |
| **Holding times** | Samples should be analysed within recommended holding times. |
| **Limits of Reporting** | Results less than the adopted assessment criteria; justify/quantify if different. |

## 8.8 REINSTATEMENT OF EXCAVATIONS / IMPORTED FILL

The Principal Contractor/Remediation Contractor will be responsible for the reinstatement of excavations and the importation of fill materials.

Reinstatement of excavated areas is to be undertaken with clean fill sourced from a certified quarry, and clean topsoil from a certified source, and establishment of an appropriate ground cover.

The Principal Contactor/Remediation Contractor is to provide the SQP with information of the source of imported fill prior to any fill material being imported to the site.

If the fill is not certified, verification samples (1 per 25 $m^3$ of imported material; minimum of three samples per source) are to be collected prior to importing the fill to confirm the fill's status as clean. Clean is considered to be soil materials with contaminant concentrations below the concentrations in the following table or below the NEPM HIL-A Residential Guidelines (Health and Ecological) if not specified in the table.

Records or verification log for Imported soil / fill material brought onto site as part of the project are to be kept to confirm that material has been certified as clean and/or verification sampling data has been undertaken.

**Table 8-4 Imported Fill Material Criteria**

| Analyte | Concentration (mg/kg) |
|---|---|
| PFAS | |
| Total PFAS | ND |
| Hydrocarbons | |
| F1 C6-C10 | ND |
| F2 C10-C16 | ND |
| F3 C16-C34 | ND |
| F4 C34-C40 | ND |
| BTEX | |
| Benzene | ND |

| Analyte | Concentration (mg/kg) |
|---|---|
| Toluene | ND |
| Ethyl-benzene | ND |
| Xylenes | ND |
| PAH | |
| Total PAH | ND |
| Pesticides | |
| OCP/OPPs | ND |
| Asbestos | |
| Bonded ACM | ND |
| FA and AF | ND |

Notes: ND - below laboratory detection limits

## 8.9 INSPECTIONS

The SQP shall undertake weekly inspections during the remediation works to check on compliance with the RAP and EMP, and to:

- check that record keeping (such as material tracking, etc.) is occurring
- Check that erosion and sediment control (ESC) measures are in good working order.

## 8.10 RECORDS

The Principal Contactor/Remediation Contractor is responsible for maintaining records of the completed remediation works which document compliance with the RAP and SMP. Records are to include but not limited to:

- Material tracking registers as per Section 8.5 of the RAP
- Survey of the remediation works to confirm the required excavation depths in Section 7.3 of the RAP has been achieved.
- Photographic records of the remediation works completed including photographic records of materials which have been taken off-site.
- Records of site inspections/audits completed by the Principal Contactor/Remediation Contractor of the remediation works.

The records are to be provided to the SQP at the completion of the remediation works.

# 9. CONTAMINATED LAND INVESTIGATION DOCUMENT

At the completion of the remedial works the SQP is to prepare a Contaminated Land Investigation Document (CLID) in accordance with the requirements of the Department of Environment and Science *Queensland Auditor Handbook for Contaminated Land, Module 6: Content requirements for contaminated land investigation documents, certifications and audit reports, version 2.01, 2019*.

The CLID is to include a Site Suitability Statement and Draft SMP (if required) if the Site is to remain on the EMR, or Preparation of a Validation Report including a Site Suitability Statement if the property is to be removed from the EMR.

# 10. HEALTH, SAFETY AND ENVIRONMENTAL CONTROLS

A site-specific Work Health and Safety (WHS), and Environmental Management Plan (EMP) will be required to be prepared by the Principal Contractor/Remedial Contractor and include, but not be limited to the minimum controls outlined below. Additional controls are outlined in the Development Consent.

## 10.1 OCCUPATIONAL HEALTH AND SAFETY

The Principal Contractor/Remedial Contractor will be required to comply with the requirements of the *Work Health and Safety Act 2011* and the *Work Health and Safety Regulation 2011*.

A Site-Specific Safety Plan (SSSP) will be required to be prepared by the Principal Contractor/Remedial Contractor engaged to undertake the project prior to the commencement of the remedial and validation works in order to protect workers at the site as well as people in the surrounding areas. The SSSP should include, but not be limited to:

- A review of the requirements of Work Safe Queensland;
- Risk assessments;
- Safe work method statements (SWMS); and
- Site Specific Safety requirements associated with the remediation works detailed in this RAP including excavation and management of contaminated soil.

The SSSP would consider the following but not limited to:

- Hazard identification and control;
- Air monitoring during excavation and remediation works;
- Chemical hazard control;
- Handling procedures;
- Personal protective equipment;
- Work zones;
- Decontamination procedures;
- Noise
- Odour[16]
- Unexpected contamination
- Contingency plans; and
- Incident reporting.

The SSSP will be periodically reviewed and updated prior to various project tasks being conducted. It will be specifically written for the remediation and validation stage.

The SQP, supporting sub-contractors and third-party observers to the site will be required to work to the WHS Plan of the Principal Contractor/Remediation Contractor and to a SSSP developed for the relevant activity.

[16] Note the contaminants of concern are not odorous and nuisance odours are not expected to be a concern for the Site during remediation.

## 10.2 INDUCTIONS

All workers and subcontractors visiting the site must report to the Principal Contractor/Remediation Contractor prior to commencing works. The Principal Contractor/Remediation Contractor will provide a brief induction for workers prior to commencing remedial activities on site, examine the works to be performed and potential risks/controls for the known contamination issues identified, and procedures to manage unexpected finds of contamination.

## 10.3 RECORD KEEPING

Relevant documentation regarding the implementation of this RAP should be maintained by the Principal Contractor/Remediation Contractor. The documentation may include (but not be limited to):

- Site plans, identifying the location of the asbestos-impacted soil areas;
- Air monitoring and clearance certificates;
- Laboratory reports;
- Waste Classification Assessments;
- Revisions of the RAP;
- Incident reports, and records relation to the identification and management of unexpected finds of contamination;
- Staff and contractor inductions/toolbox talks/asbestos awareness training and training records;
- Relevant environmental reports;
- Remediation Area (e.g. Area 1, 2A, 2B, etc.) where the excavated material originated from;
- Estimated excavation volume; and
- Company name of the cartage contractors, if multiple contractors are being used.

During material removal from site the following information shall be recorded and maintained by the Principal Contractor/Remediation Contractor. This must include the following:

- Copy of tipping dockets;
- Date and time of disposal;
- Name and address of tip/facility of disposal/transfer;
- Mass of waste (tonnes);
- Type of waste; and
- Truck registration.

## 10.4 TOOLBOX TALKS

Prior to commencement of the remedial works each day, and following a significant change in site conditions, relevant site personnel should undertake a toolbox talk. The toolbox talk must incorporate details and instructions on how to manage contaminated soil in accordance with this RAP and the SSSP. The toolbox can be combined with the Induction if practicable.

## 10.5 ACCESS

As the site will be classified as a construction area, it is necessary to restrict access solely to authorised staff and contractors who have completed the site safety induction and have appropriate levels of personal protective equipment.

Fencing will be required around the perimeter of the site to restrict unauthorised access to the site.

Barricades and signage, including contractor details and contact numbers, will be erected near the gate at the site. The signage will remain displayed on the site entrance throughout the duration of the demolition and remedial works.

The Principal Contractor/Remediation Contractor will control site access and will authorise visitor access on an “as needed” basis.

## 10.6 WORKING HOURS

Work hours are to be undertaken in accordance with the EMP.

## 10.7 COMMUNITY CONSULTATION

Prior to conducting remediation works, a community consultation plan shall be developed and distributed by the Principal Contractor/Remediation Contractor (or other agreed party such as Brisbane City Council) in general accordance with Schedule B(8) of the amended ASC NEPM). The notice will outline:

- That remediation and excavation work will be carried out at the site.
- The time and date the work was proposed to commence.
- That works were being conducted to minimise risk of site contamination impacting off-site receptors.
- The contact information and processes required for registering any complaints.

The community consultation plan is to include information on who is to be consulted and how consultation will be conducted. Consultation should include nearby residents, Greenslopes Private Hospital, community groups, elected local, State and Commonwealth members and other interested parties.

## 10.8 DESIGNATED WASH DOWN AREA

To minimise tracking of contaminated soil on vehicles leaving the site, a wheel wash bay shall be installed at the site entrance/exit. This may comprise a cattlegrid underlaid by geo-textile fabric with aggregate on either side.

All vehicles are to be washed in the wheel wash bay prior to leaving the compounds.

Where vehicles have been used on exposed soil, tyres and wheels and are to be cleaned using a low-pressure hose and/or hand tools where necessary.

The design of the wheel wash bay area is to allow for capture of wastewater and removal by an appropriately licenced contractor for offsite management/disposal as regulated waste.

## 10.9 DUST SUPPRESSION

The Principal Contractor/Remediation Contractor will be responsible for dust suppression.

Dust suppression techniques will be required to control generation of visible dust during the course of the works. Dust suppression techniques may include one or a combination of the following:

- Fine water spraying/misting directly onto the soil if excessive dust is generated during excavations.
- Use of PVA to stabilise the soil, if required.
- Covering soil within trucks using tarpaulin or fabric cover.
- Covering dump truck/skip bins/stockpiles with high-density polythene (HDPE) sheeting or geotextile fabric.
- Restricting trucks to low speeds on-site.
- Ceasing works if visible dust is being generated.

## 10.10 AIR MONITORING

Air monitoring will be conducted by the SQP/Licenced Asbestos Assessor during remediation works. Monitoring for asbestos (Licenced Asbestos Assessor) and OCPs (SQP) will be conducted on site in accordance with the following table.

| Component | Description |
|---|---|
| **Asbestos** | Air sampling for asbestos will be undertaken from site boundary locations, work area boundary locations, and clearance air monitoring within work areas where required. Air monitoring will be undertaken in accordance with the Queensland *How to Safely Remove Asbestos Code of Practice 2021* and the *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres 2nd Edition* (Safe Work Australia, 2005). It is anticipated that air monitoring will be undertaken from a minimum of 6 to 8 locations by a Licenced Asbestos Assessor. Air quality criteria for asbestos are included in the code of practice. |
| **OCPs** | During the undertaken of excavation works ambient dust monitoring is to be undertaken at up to 3 locations around the boundary of the site. Monitoring locations will be positioned based on forecast wind direction and adjacent residential receptors and are expected to include a sampler on the sites western, northern and eastern boundary. Dust samples will be collected continuously over a 1-week period based on USEPA Method TO-4 *Determination of Pesticides and Polychlorinated Biphenyls in Ambient Air Using High Volume Polyurethane Foam (PUF) Sampling*, and analysed weekly at a NATA accredited laboratory for OCPs. |

Air quality monitoring results for asbestos and OCPs will be reported in the CLID.

Air quality results for OCPs will be compared to the USEPA Regional Screening Levels (RSL) (THQ = 0.1) for Residential Air[17] with a correction factor of 10 (see footnote[18]), or other site specific risk assessment criteria agreed with the Site Auditor. UEPA Residential Air Quality Guidelines for OCPs which have reported positive detection in soil at the site are summarised in the following table.

**Table 10-1 Air Quality Guidelines**

| Contaminant | USEPA RSL Residential Air Quality (µg/m³) | USEPA RSL Residential Air Quality with a correction (multiplication) factor of 10 (ng/m³) |
|---|---|---|
| 4,4-DDE | 0.029 | 290 |
| Aldrin | 0.00057 | 5.7 |
| chlordane | 0.028 | 280 |
| DDD | 0.041 | 410 |
| DDT | 0.029 | 290 |
| Dieldrin | 0.00061 | 6.1 |
| Endrin aldehyde | no guideline | no guideline |
| Endrin ketone | no guideline | no guideline |
| Endosulfan I | no guideline | no guideline |
| Endrin | no guideline | no guideline |
| Heptachlor | 0.0022 | 22 |
| Heptachlor epoxide | 0.0011 | 11 |

[17] https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables
[18] An adjust factor of 10 has been applied to the USEPA RSL criteria (TR=1E-6, THQ=0.1) to account for an acceptable lifetime risk of cancer (ILCR) of 1 in 100,000 and an acceptable HQ of 1 which are adopted as standard practice in Australia.

## 10.11 EROSION AND SEDIMENT CONTROL

Prior to the commencement of remediation the Principal Contactor/Remediation Contractor is to prepare an Erosion and Sediment Control Plan (ESC). The ESCP is to be prepared in accordance with Brisbane City Council's EP016 Erosion and Sediment Control Procedure require an ESCP and be signed by a Suitably Qualified Professional (CPESC or RPEQ). Controls included in the ESCP are to meet current industry best practice techniques.

Erosion and sediment controls must be in place prior to commencement of soil disturbance activities. The nature of the erosion and sediment controls will depend on the amount of water generated by remediation and dust suppression. Examples include sediment barriers and traps to mitigate sediment load entering the stormwater system or migrating offsite.

## 10.12 SURFACE WATER DISCHARGE AND MONITORING

The Principal Contractor/Remediation Contractor will be responsible for managing water generated during construction and ensuring the lawful discharge or removal of water from the Site.

Remediation works are to be undertaken in a manner which minimises the release of surface water from the Site as much as practicable. Clean water around undisturbed areas is to be directed around excavation areas.

Where surface water accumulates in excavations as a result of a rainfall event the water should be removed as a regulated waste by an appropriately licenced contractor.

Alternatively accumulated surface water may be sampled and tested at a NATA accredited laboratory to determine appropriate management requirements in accordance with the EMP. Stormwater released from the site is to comply with the following guidelines:

- Australian and New Zealand guidelines for fresh and marine water quality 2000 (2018 edition) prepared by Australian and New Zealand Environment and Conservation Council (ANZECC) and the Agriculture and Resource Management Council of Australia and New Zealand (ARMCANZ) ("ANZECC Guidelines). For toxicants a 95% level of protection is assumed for lowland freshwater based on the management intent described in Environmental Protection (Water) Policy 2009, South-east Queensland Map Series PLAN WQ1423 (Queensland Government, 2010)
- Guidelines for Managing Risks in Recreational Water (NHMRC, 2008).
- *Brisbane River Estuary - Environmental Values and Water Quality Objectives (2010) Basin No. 143 (part), including all creeks of the Brisbane River estuary, other than Oxley Creek* (Department of Environment and Resource Management, 2020) for Norman Creek Fresh Water.

In addition to the above following criteria will also apply:

- no coarse sediment in discharge
- hydrocarbons – no visible sheens
- waste – no waste or litter.

# 11. CONTINGENCY PLAN

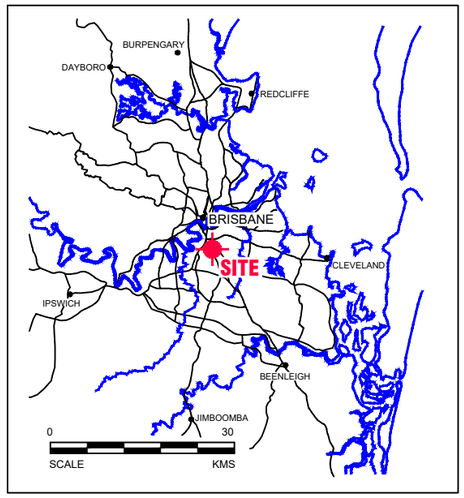
The conditions encountered during remedial works can be uncertain. A set of typical issues and proposed corrective actions associated with a remediation program is provided in the following table.

**Table 10-1: Contingency Plan**

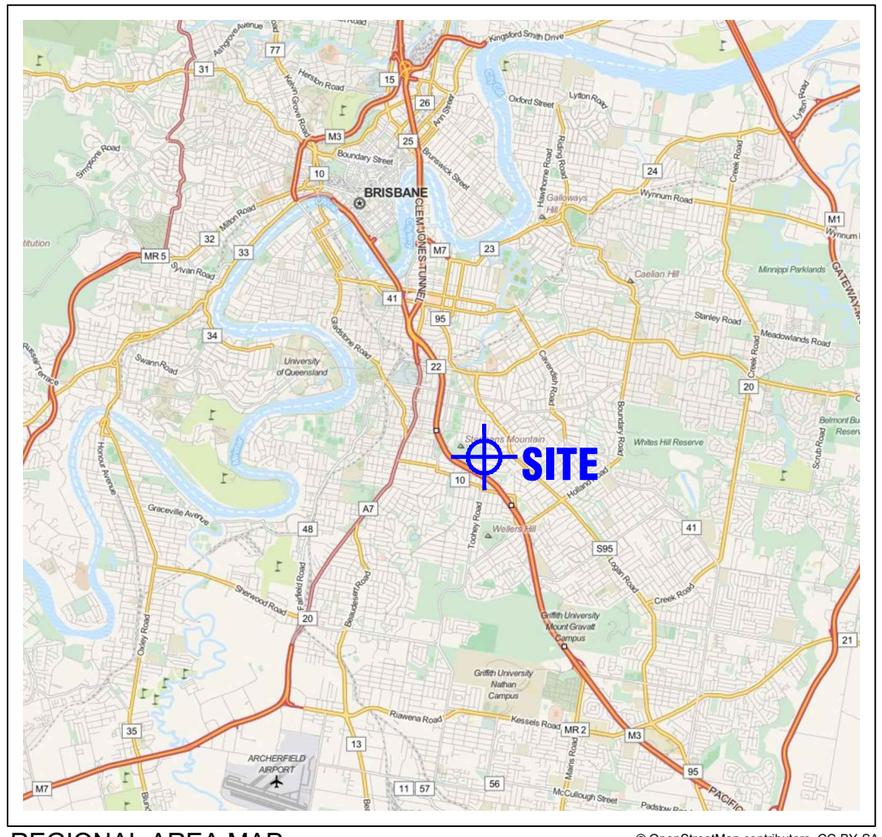
| Potential issues | Proposed corrective actions, as appropriate | Responsible person | Communication and additional sampling/ monitoring |
|---|---|---|---|
| Heavy rain / excessive stormwater | Minimise active contaminated work area; improve stormwater diversion.<br>Check control measures are adequate to prevent surface water runoff entering and leaving excavation and stockpile areas.<br>Temporary bunding or diversion drain, HDPE sheeting placed under stockpiles, silt fences/hay bales surrounding stockpiles and protection existing drains to be regularly inspected to ensure that they are in good condition and if necessary, upgraded where their performance is deteriorating. | Principal Contactor/ Remediation Contractor | Breaches are to be recorded in the daily site log and provided to the SQP.<br>No additional monitoring/sampling required. |
| Excessive dust | Use water sprays; stop dust-generating activity until better dust control can be achieved or apply interim capping systems on stockpiles or exposed material. Stop work in high wind conditions. | Principal Contactor/ Remediation Contractor | Breaches are to be recorded in the daily site log. |
| Unexpected contamination findings | If unexpected contamination or aesthetically unacceptable material (e.g. stained or odorous soil, asbestos containing materials (ACM) etc., materials which pose physical hazards (sharp/angular), aesthetically unacceptable) is encountered onsite, the works will stop in the affected part of the site. Works shall cease and the Principal Contactor/Remediation Contractor shall request the SQP to conduct an assessment of the material to formulate an appropriate response. | Principal Contactor/ Remediation Contractor<br>SQP | Further assessment will be required by the SQP to determine an appropriate course of action. |
| Relics | If human remains, buried stone artefacts, items of heritage or other indications of an aboriginal site are discovered during excavation work, work shall cease until an appropriate action can be confirmed. | Principal Contactor/ Remediation Contractor | Principal Contractor and the required authorities will be notified. |
| Discovery of underground tanks during excavation works | Work to be suspended until SQP can further assess impacted soils/materials and associated risks. Tank removal works to be overseen and validated by the SQP. | Principal Contactor/ Remediation Contractor<br>SQP | Validation of excavations after tank removal by SQP. Validation samples would at a minimum be analysed for Metals (Standard 8) TRHs, BTEX compounds and PAHs. |

| Potential issues | Proposed corrective actions, as appropriate | Responsible person | Communication and additional sampling/ monitoring |
|---|---|---|---|
| Complaints are received directly relating to the works undertaken | Stop works and implement control measures to address complaint (if possible). | Principal Contactor/ Remedial contractor | Notify relevant Project Managers following complaint and follow incident procedure. |

# APPENDIX A: FIGURES




GENERAL AREA MAP




REGIONAL AREA MAP

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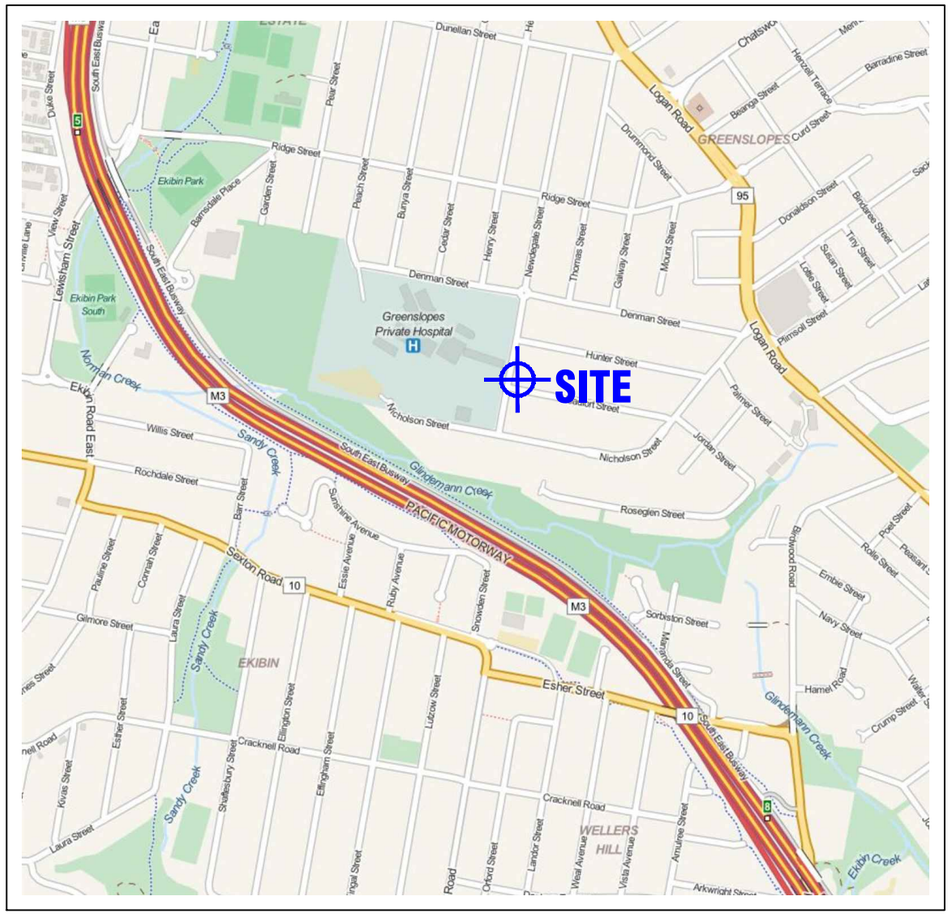
0 1.5 3 4.5 6 7.5
SCALE 1:150000 (A3) KILOMETRES




LOCAL AREA MAP

© OpenStreetMap contributors, CC-BY-SA

0 150 300 450 600 750
SCALE 1:15000 (A3) METRES

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

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| drawn | SMW / AW |
| approved | - |
| date | 24-07-2023 |
| scale | AS SHOWN |
| original size | A3 |

TETRA TECH COFFEY

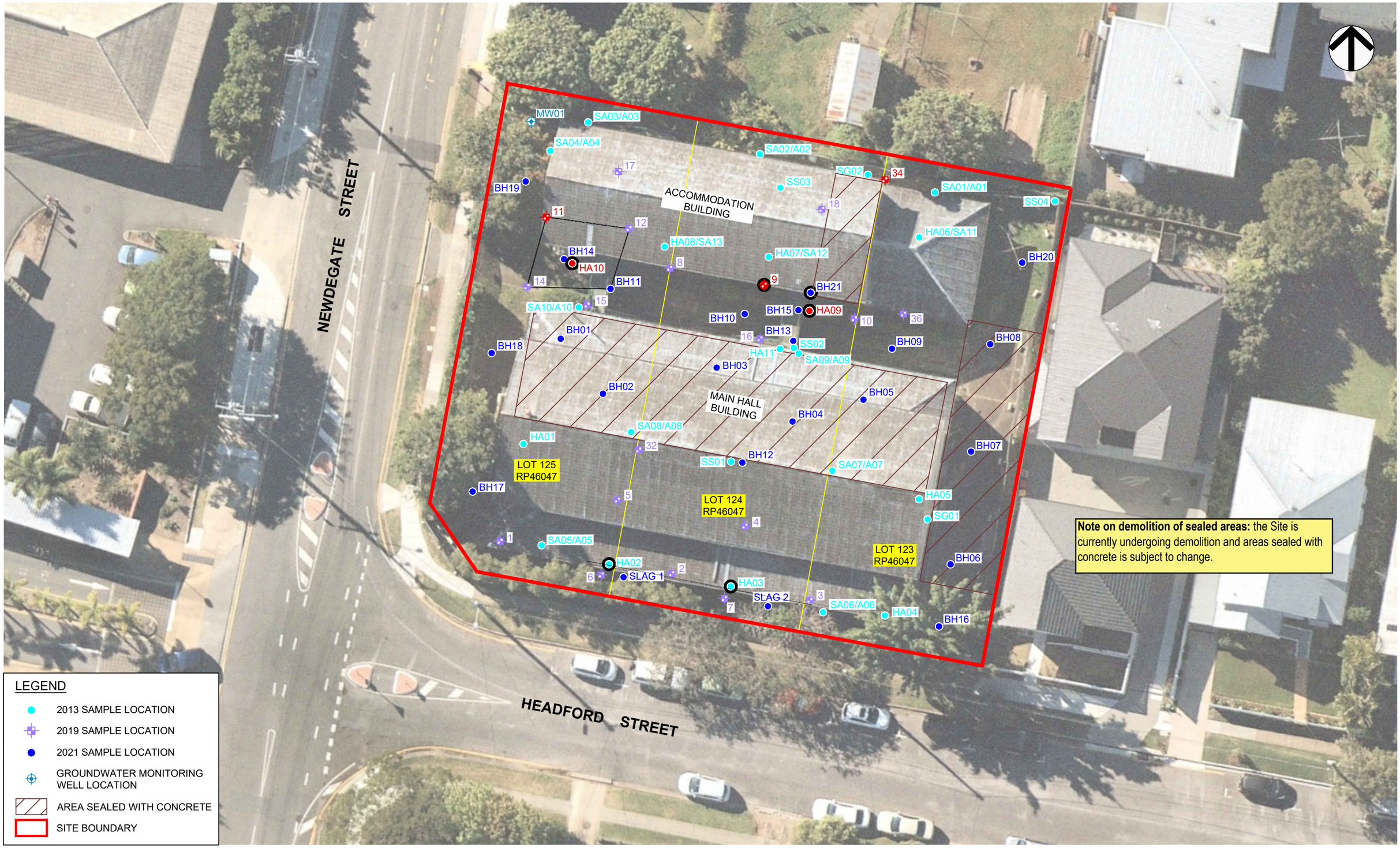
client: DEPARTMENT OF VETERAN AFFAIRS

project: DVA GREENSLOPES
51-55 HEADFORD STREET, GREENSLOPES, QLD

title: SITE LOCATION PLAN

project no: 754-BNEEN282781 | figure no: FIGURE 1 | rev: A

PLOT DATE: 24/7/2023 1:44:03 PM DWG FILE: F:\1. PROJECTS\1. SYDNEY\OTHER OFFICES\BNE-EN\754-BNEEN282781\CAD\754-BNEEN282781.DWG




**Note on demolition of sealed areas:** the Site is currently undergoing demolition and areas sealed with concrete is subject to change.

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

5 0 5 10 15

Scale (metres) 1:300

SOURCE: NEARMAP IMAGE - 9/08/2019

| | |
|---|---|
| drawn | SMW / AW |
| approved | - |
| date | 24-07-2023 |
| scale | AS SHOWN |
| original size | A3 |

TETRA TECH COFFEY

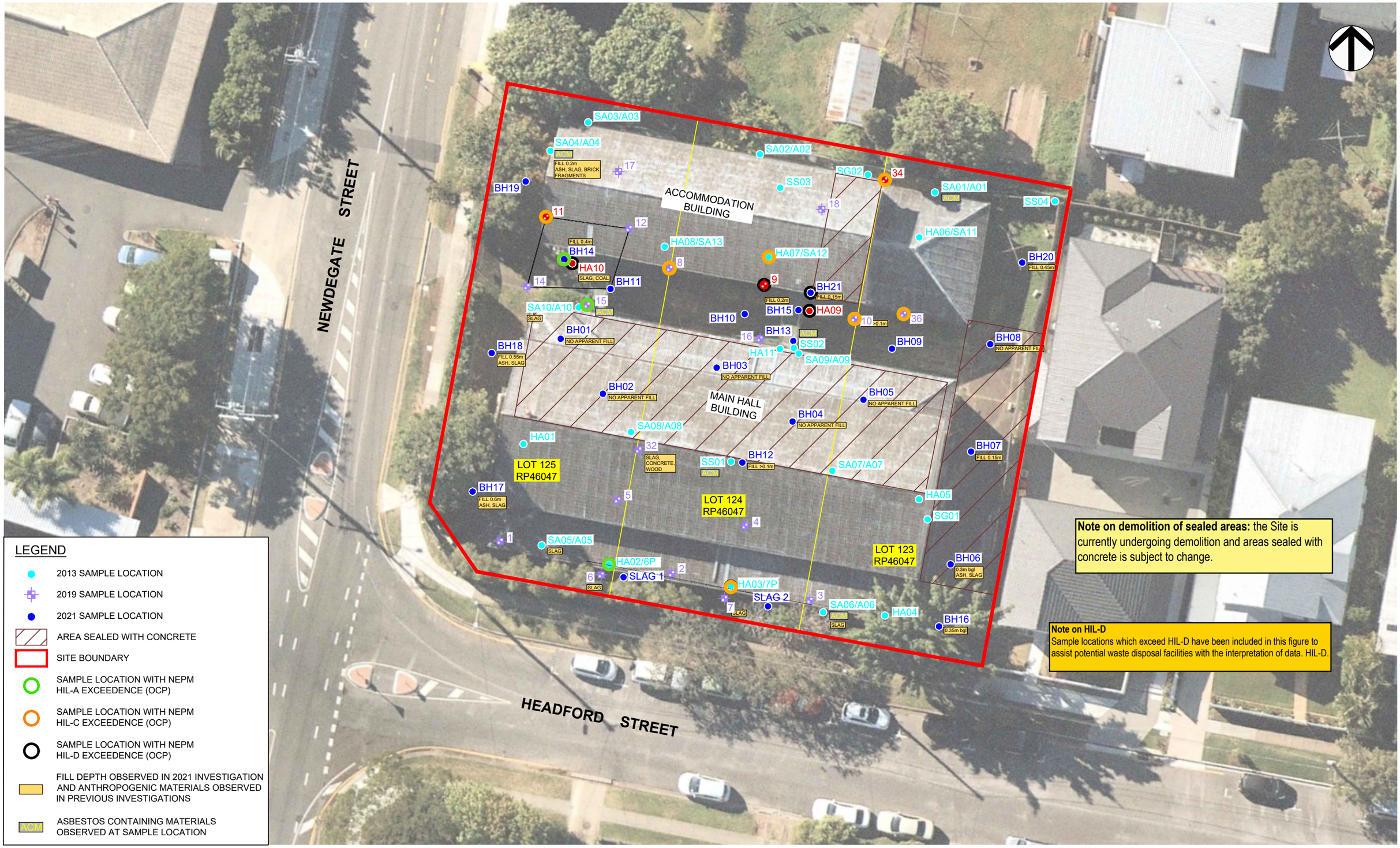
client: DEPARTMENT OF VETERAN AFFAIRS

project: DVA GREENSLOPES
51-55 HEADFORD STREET, GREENSLOPES, QLD

title: SAMPLE LOCATION PLAN

project no: 754-BNEEN282781 | figure no: FIGURE 2 | rev: A

PLOT DATE: 24/7/2023 1:44:15 PM DWG FILE: F:\1. PROJECTS\1. SYDENEN\OTHER OFFICES\BNE-EN\754-BNEEN282781\CAD\754-BNEEN282781.DWG




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

5 0 5 10 15

Scale (metres) 1:300

SOURCE: NEARMAP IMAGE - 9/08/2019

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| drawn | SMW / AW |
| approved | - |
| date | 24-07-2023 |
| scale | AS SHOWN |
| original size | A3 |

TETRA TECH COFFEY

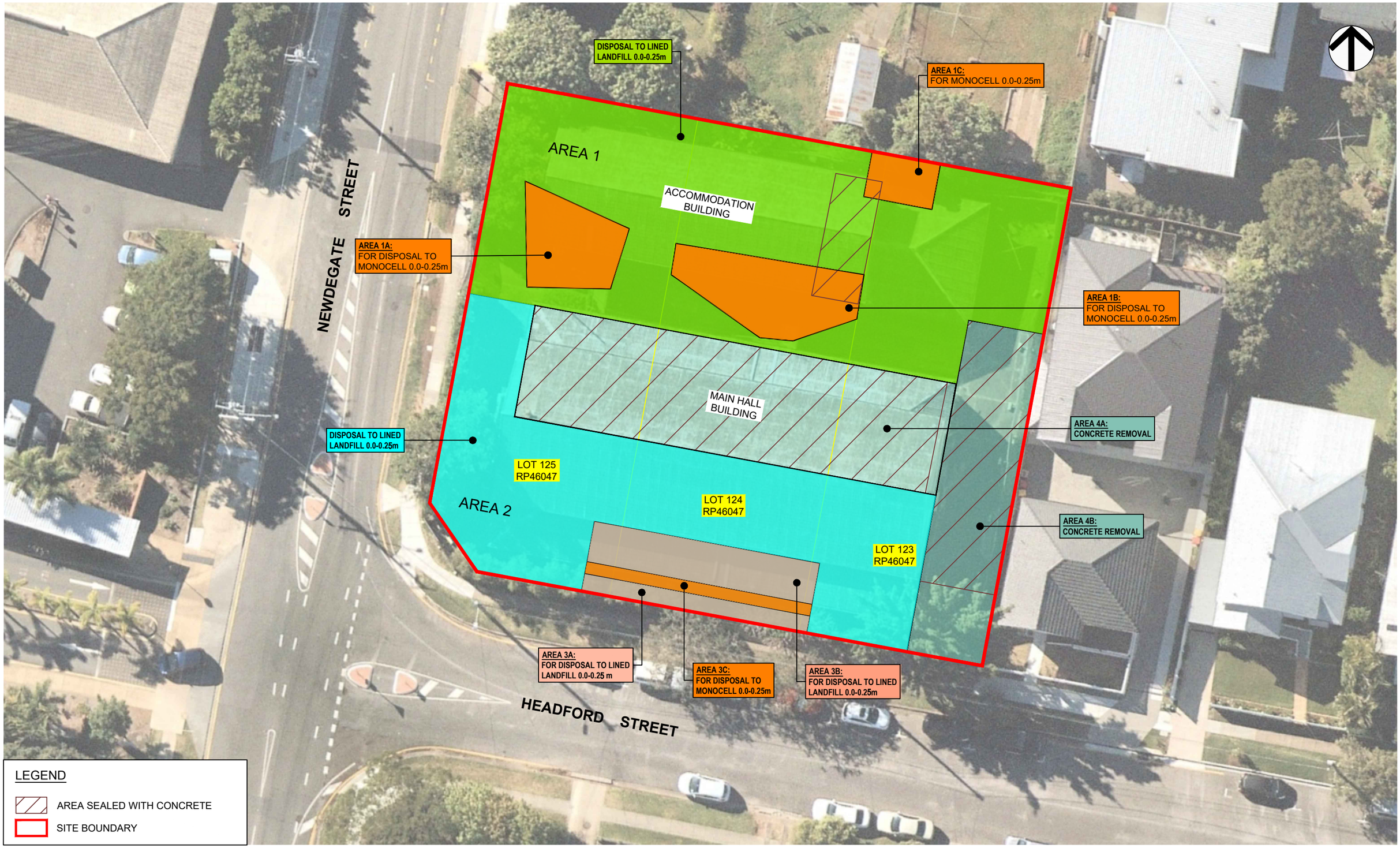
client: DEPARTMENT OF VETERAN AFFAIRS

project: DVA GREENSLOPES
51-55 HEADFORD STREET, GREENSLOPES, QLD

title: SUMMARY OF HUMAN HEALTH EXCEEDANCES AND FILL DEPTH

project no: 754-BNEEN282781 | figure no: FIGURE 3 | rev: A

PLOT DATE: 24/7/2023 1:44:43 PM DWG FILE: F:\1. PROJECTS\1. SYDENEN\OTHER OFFICES\BNE-EN\754-BNEEN282781\CAD\754-BNEEN282781.DWG




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

5 0 5 10 15

Scale (metres) 1:300

SOURCE: NEARMAP IMAGE - 9/08/2019

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| drawn | SMW / AW |
| approved | - |
| date | 08-08-2023 |
| scale | AS SHOWN |
| original size | A3 |

TETRA TECH COFFEY

client: DEPARTMENT OF VETERAN AFFAIRS

project: DVA GREENSLOPES
51-55 HEADFORD STREET, GREENSLOPES, QLD

title: EXCAVATION PLAN 0-0.25 M BGS

project no: 754-BNEEN282781 | figure no: FIGURE 4A | rev: A

PLOT DATE: 8/8/2023 2:12:26 PM DWG FILE: F:\1. PROJECTS\1. SYDENEN\OTHER OFFICES\BNE-EN\754-BNEEN282781\CAD\754-BNEEN282781.DWG

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

5 0 5 10 15

Scale (metres) 1:300

SOURCE: NEARMAP IMAGE - 9/08/2019

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| drawn | SMW / AW |
| approved | - |
| date | 24-07-2023 |
| scale | AS SHOWN |
| original size | A3 |

TETRA TECH COFFEY

client: DEPARTMENT OF VETERAN AFFAIRS

project: DVA GREENSLOPES
51-55 HEADFORD STREET, GREENSLOPES, QLD

title: EXCAVATION PLAN 0.25-0.4 M BGS

project no: 754-BNEEN282781 | figure no: FIGURE 4B | rev: A

PLOT DATE: 24/7/2023 3:30:06 PM DWG FILE: F:\1. PROJECTS\1. SYDENEN\OTHER OFFICES\BNE-EN\754-BNEEN282781\CAD\754-BNEEN282781.DWG

# APPENDIX B: DATA TABLES

**DVA Greenslopes Soil Data Table - NEPM HIL-A and HIL-C**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Anthropogenic Materials | Sampled_Date | Asbestos | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | | Polyaromatic Hydrocarbons (PA | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Asbestos (ID) (ND - not detected) | ACM (w/w) | Asbestos Fines (w/w) | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endrin aldehyde | Endrin ketone | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Total OCP | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(b+j)fluoranthene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene |
| | | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Units | - | - | - | | - | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | 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 |
| EQL | - | - | - | | - | - | | - | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 1 | 0.1 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| EIL - Res/Open Space | | | - | | | - | | - | | | | | | | | | 180 | | | | | | | | | | | | | | | | | | | | | | | | | | 0.7 | | | |
| HIL-A Residential | | | - | | | - | 0.01% | 0.001% | | | | 6 | | 50 | | | | 240 | | | | 270 | | | 10 | | 6 | | 10 | 300 | 20 | | 3 | 3 | 3 | | | | | | | | | | |
| HIL-C Recreational | | | - | | | - | 0.02% | 0.001% | | | | 10 | | 70 | | | | 400 | | | | 340 | | | 20 | | 10 | | 10 | 400 | 30 | | 3 | 3 | 3 | | | | | | | | | | |
| SS01 | 0 | 0.1 | AREA 2 | ACM | 16/07/2013 | Chrysotile | | 0.007% (*) | 1.3 | <0.05 | <0.05 | <0.12 | <0.05 | 0.9 | <0.05 | 1.7 | 3.7 | 6.7 | 0.07 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | 7.67 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| SS02 | 0 | 0.1 | AREA 1B / AREA 1 | ACM | 16/07/2013 | Chrysotile | | 0.022% (*) | <0.05 | <0.05 | <0.05 | <0.25 | <0.05 | 20 | <0.05 | <0.05 | 0.12 | <0.22 | 0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.26 | <0.05 | <0.05 | <0.1 | 20.58 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| SS03 | 0 | 0.1 | AREA 1 | | 16/07/2013 | ND | | ND | 0.09 | <0.05 | 0.11 | 1.81 | <0.05 | 0.3 | <0.05 | <0.05 | 0.13 | <0.27 | 1.7 | <0.05 | 0.07 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | 2.4 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| SS04 | 0 | 0.1 | AREA 1 | | 16/07/2013 | ND | | ND | <0.05 | <0.05 | <0.05 | 1.15 | <0.05 | 8.2 | <0.05 | <0.05 | <0.05 | <0.15 | 1.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.24 | <0.05 | <0.05 | <0.1 | 9.54 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| SA01/A01 | 0 | 0.1 | AREA 1 | ACM | 25/09/2013 | Chrysotile | | 0.0005% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA02/A02 | 0 | 0.1 | AREA 1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA03/A03 | 0 | 0.1 | AREA 1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA04/A04 | 0 | 0.1 | AREA 1 | Slag, Brick | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA05/A05 | 0 | 0.1 | AREA 2 | Slag | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0 | 0.1 | AREA 2 | Slag | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0.3 | 0.4 | AREA 2 | Slag | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA07/A07 | 0 | 0.1 | AREA 4A | | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA08/A08 | 0 | 0.1 | AREA 4A | Slag, Concrete, Wood | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA09/A09 | 0 | 0.1 | AREA 1 | | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA10/A10 | 0 | 0.1 | AREA 1 | Slag | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA11/A11 | 0 | 0.1 | AREA 1 | | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA13/A13 | 0 | 0.1 | AREA 1 | | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Main Hall (under building) | 0 | 0 | AREA 2 | ACM | 25/09/2013 | | 0.0149% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accomodation Building (under building) | 0 | 0 | AREA 1 | ACM | 25/09/2013 | | 0.0303% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unsealed External Areas | 0 | 0.01 | - | | 25/09/2013 | | 0.0084% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A01, A04, A10 | 0.15 | 0.15 | - | | 25/09/2013 | | 0.0090% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A06, A10 | 0.15 | 0.15 | - | | 25/09/2013 | | 0.0038% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA01 | 0 | 0.1 | AREA 2 | | 25/09/2013 | | | | 0.27 | - | 0.07 | 0.21 | < 0.05 | 31 | < 0.05 | 0.08 | 1.1 | 1.45 | 0.14 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.13 | < 0.05 | < 0.05 | < 0.05 | < 1 | 32.79 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA02 | 0 | 0.1 | AREA 3C | | 25/09/2013 | | | | 0.23 | - | < 0.05 | <0.1 | < 0.05 | 51 | < 0.05 | 0.09 | 0.73 | 1.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.08 | 0.23 | < 0.05 | < 0.05 | < 1 | 52.36 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA03 | 0 | 0.1 | AREA 3C | | 25/09/2013 | | | | 0.57 | - | < 0.05 | <0.11 | < 0.05 | 140 | < 0.05 | 0.18 | 1.6 | 2.35 | 0.06 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.14 | 0.51 | < 0.05 | < 0.05 | < 1 | 143.06 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA04 | 0 | 0.1 | AREA 2 | | 25/09/2013 | | | | < 0.05 | - | < 0.05 | <0.1 | < 0.05 | 4.7 | < 0.05 | < 0.05 | 0.41 | <0.51 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.07 | < 0.05 | < 0.05 | < 1 | 5.18 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA05 | 0 | 0.1 | AREA 2 | | 25/09/2013 | | | | < 0.05 | - | < 0.05 | <0.1 | < 0.05 | < 0.1 | < 0.05 | < 0.05 | 0.12 | <0.22 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 0.12 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QC01 (DUP HA05) | 0 | 0.1 | AREA 2 | | 26/09/2013 | | | | < 0.05 | - | < 0.05 | <0.1 | < 0.05 | < 0.1 | < 0.05 | < 0.05 | 0.06 | <0.22 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 0.06 | | | | | | | | | | | | | |
| QC01A (TRIP HA05) | 0 | 0.1 | AREA 2 | | 26/09/2013 | | | | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.3 | <0.1 | <0.1 | | <0.1 | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | | <0.1 | | | | | | | | | | | | |
| HA06/SA11 | 0 | 0.1 | AREA 1C / AREA 1 | | 25/09/2013 | ND | | | 0.49 | - | < 0.05 | <0.87 | < 0.05 | < 0.1 | < 0.05 | 0.27 | 4.2 | 4.96 | 0.82 | < 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 5.83 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA07/SA12 | 0 | 0.1 | AREA 1B / AREA 1 | | 25/09/2013 | | | | 0.05 | - | 0.26 | 28.26 | < 0.05 | 0.3 | < 0.05 | < 0.05 | 0.26 | <0.36 | 28 | < 0.05 | 0.96 | < 0.05 | < 0.05 | < 0.05 | 0.7 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 30.53 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA08/SA13 | 0 | 0.1 | AREA 1 | | 25/09/2013 | ND | | | < 0.05 | - | < 0.05 | <0.13 | < 0.05 | < 0.1 | < 0.05 | < 0.05 | 0.13 | <0.23 | 0.08 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 0.21 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA09 | 0 | 0.2 | AREA 1B | | 25/09/2013 | | | | 0.07 | - | 0.06 | 55.06 | < 0.05 | 0.3 | < 0.05 | < 0.05 | 0.22 | <0.34 | 55 | < 0.05 | 0.58 | < 0.05 | < 0.05 | < 0.05 | 0.93 | < 0.05 | < 0.05 | 0.06 | < 0.05 | < 0.05 | < 1 | 57.22 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA10 | 0 | 0.2 | AREA 1A | Slag, Coal | 25/09/2013 | | | | < 0.5 | - | 86 | 506 | < 0.05 | 5.4 | < 0.05 | < 0.05 | < 0.05 | <0.55 | 420 | < 0.05 | 8.5 | < 0.05 | < 0.05 | < 0.05 | 6.5 | < 0.05 | 0.87 | 0.11 | < 0.05 | < 0.05 | < 1 | 527.38 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA11 | 0 | 0.1 | AREA 1 | | 25/09/2013 | | | | 0.13 | - | < 0.05 | <0.44 | < 0.05 | 42 | < 0.05 | 0.06 | 0.16 | 0.35 | 0.39 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.2 | 1 | < 0.05 | < 0.05 | < 1 | 43.94 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-0.0 | 0 | 0.1 | AREA 2 | | 1/10/2019 | | | | 0.82 | <0.05 | <0.05 | <0.05 | <0.05 | 0.3 | <0.05 | 0.13 | 0.9 | 1.85 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 2.15 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-0.3 | 0.3 | 0.3 | AREA 2 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | | | | |
| 2-0.0 | 0 | 0.1 | AREA 3C | | 1/10/2019 | | | | 0.09 | <0.05 | <0.05 | 0.06 | <0.05 | 5.2 | <0.05 | <0.05 | 0.33 | 0.42 | 0.06 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 5.68 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QC01 (DUP 2-0.0) | 0 | 0.1 | AREA 3C | | 1/10/2019 | | | | 0.11 | <0.05 | <0.05 | <0.05 | <0.05 | 2.1 | <0.05 | 0.36 | 0.06 | 0.53 | <0.05 | 0.05 | <0.05 | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 2.73 | | | | | | | | | | | | | |
| QC02 (TRIP 2-0.0) | 0 | 0.1 | AREA 3C | | 1/10/2019 | | | | 0.14 | <0.05 | <0.05 | <0.05 | <0.05 | 5.84 | <0.05 | <0.05 | 0.9 | 1.04 | <0.05 | <0.05 | <0.05 | <1.02 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.06 | <0.05 | <0.2 | - | 6.94 | | | | | | | | | | | | | |

**DVA Greenslopes Soil Data Table - NEPM HIL-A and HIL-C**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Anthropogenic Materials | Sampled_Date | Asbestos | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | Polyaromatic Hydrocarbons (PA | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Asbestos (ID) (ND - not detected) | ACM (w/w) | Asbestos Fines (w/w) | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endrin aldehyde | Endrin ketone | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Total OCP | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(b+j)fluoranthene | Acenaphthene | Acenaphthylene | Anthracene | Benzo(a)anthracene | Benzo(a) pyrene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene |
| Units | - | - | - | | - | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | 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 |
| EQL | - | - | - | | - | - | | - | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 1 | 0.1 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| EIL - Res/Open Space | | | - | | | - | | - | | | | | | | | | 180 | | | | | | | | | | | | | | | | | | | | | | | | | | 0.7 | | | |
| HIL-A Residential | | | - | | | - | 0.01% | 0.001% | | | | 6 | | 50 | | | | 240 | | | | 270 | | | 10 | | 6 | | 10 | 300 | 20 | | 3 | 3 | 3 | | | | | | | | | | |
| HIL-C Recreational | | | - | | | - | 0.02% | 0.001% | | | | 10 | | 70 | | | | 400 | | | | 340 | | | 20 | | 10 | | 10 | 400 | 30 | | 3 | 3 | 3 | | | | | | | | | | |
| 2-0.3 | 0.3 | 0.3 | AREA 2 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.2 | | | | | | | | | | | | | |
| QC03 (DUP 2-0.3) | 0.3 | 0.3 | AREA 2 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | | | | |
| QC04 (TRIP 2-0.3) | 0.3 | 0.3 | AREA 2 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.23 | <0.05 | <0.05 | <0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | 0.23 | | | | | | | | | | | | | |
| 3-0.0 | 0 | 0.1 | AREA 3C | | 1/10/2019 | | | | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.9 | <0.05 | 0.27 | 0.59 | 0.91 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 2.81 | - | - | - | - | - | - | - | - | - | - | - | - |
| 3-0.35 | 0.35 | 0.35 | AREA 3C | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | | | | |
| 4-0.0 | 0 | 0.1 | AREA 2 / AREA 3B | | 1/10/2019 | | | | 0.31 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | 4.1 | 4.41 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 4.41 | - | - | - | - | - | - | - | - | - | - | - | - |
| 4-0.35 | 0.35 | 0.35 | AREA 2 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | | | | |
| 5-0.0 | 0 | 0.1 | AREA 2 / AREA 3B | | 1/10/2019 | | | | 1.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | 1.5 | 5.4 | 8.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 8.2 | - | - | - | - | - | - | - | - | - | - | - | - |
| 5-0.35 | 0.35 | 0.35 | AREA 2 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | | | | |
| 6-0.0 | 0 | 0.1 | AREA 3A | | 1/10/2019 | | | | 0.17 | <0.05 | <0.05 | 0.08 | <0.05 | 5.5 | <0.05 | 0.06 | <0.05 | 0.23 | 0.08 | 0.07 | <0.05 | <0.05 | <0.05 | <0.05 | 0.05 | <0.05 | 0.26 | 0.89 | <0.05 | <0.05 | <1 | 7.08 | - | - | - | - | - | - | - | - | - | - | - | - |
| 6-0.45 | 0.45 | 0.45 | AREA 2 | Slag | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.5 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.26 | <0.05 | <0.05 | <1 | 0.76 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 6P-0.0 (HA02) | 0 | 0.1 | AREA 3C | | 1/10/2019 | | | | 0.19 | <0.05 | <0.05 | <0.05 | <0.05 | 4.2 | <0.05 | 0.06 | 0.33 | 0.58 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 4.78 | - | - | - | - | - | - | - | - | - | - | - | - |
| 6P-0.3 (HA02) | 0.3 | 0.3 | AREA 3C | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.3 | | | | | | | | | | | | | |
| 7-0.0 | 0 | 0.1 | AREA 3A | | 1/10/2019 | | | | 0.26 | <0.05 | <0.05 | <0.05 | <0.05 | 16 | <0.05 | 0.08 | <0.05 | 0.34 | <0.05 | 0.24 | <0.05 | <0.05 | <0.05 | <0.05 | 0.12 | <0.05 | 1 | 3.4 | <0.05 | <0.05 | <1 | 21.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 7-0.45 | 0.45 | 0.45 | AREA 2 | Slag | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.4 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.18 | <0.05 | <0.05 | <1 | 0.58 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 7P-0.0 (HA03) | 0 | 0.1 | AREA 3C | | 1/10/2019 | | | | 0.15 | <0.05 | <0.05 | <0.05 | <0.05 | 2.3 | <0.05 | 0.05 | 0.17 | 0.37 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.09 | <0.05 | <0.05 | <1 | 2.76 | - | - | - | - | - | - | - | - | - | - | - | - |
| 7P-0.25 (HA03) | 0.25 | 0.25 | AREA 3C | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.4 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.4 | | | | | | | | | | | | | |
| 8-0.0 | 0 | 0 | AREA 1B / AREA 1 | | 1/10/2019 | | | | 0.1 | <0.05 | 0.56 | 23.56 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.1 | 23 | <0.05 | 0.12 | <0.05 | <0.05 | <0.05 | 0.23 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 24.01 | - | - | - | - | - | - | - | - | - | - | - | - |
| 8-0.42 | 0.42 | 0.42 | AREA 1 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 1.3 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 1.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 1.3 | | | | | | | | | | | | | |
| 9-0.0 | 0 | 0.1 | AREA 1B | | 1/10/2019 | | | | 0.2 | <0.05 | 0.08 | 60.08 | <0.05 | 0.2 | <0.05 | <0.05 | <0.05 | 0.2 | 60 | <0.05 | 0.36 | <0.05 | <0.05 | <0.05 | 0.83 | <0.05 | <0.05 | 0.06 | <0.05 | <0.05 | <1 | 61.73 | - | - | - | - | - | - | - | - | - | - | - | - |
| 9-0.42 | 0.42 | 0.42 | AREA 1 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 0.36 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.36 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.36 | | | | | | | | | | | | | |
| 9P-0.0 (HA09) | 0 | 0.1 | AREA 1B | | 1/10/2019 | | | | 0.1 | <0.05 | <0.05 | 18 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.1 | 18 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 18.26 | - | - | - | - | - | - | - | - | - | - | - | - |
| 9P-0.45 (HA09) | 0.45 | 0.45 | AREA 1 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 0.13 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.13 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.13 | | | | | | | | | | | | | |
| 10-0.0 | 0 | 0.1 | AREA 1B / AREA 1 | | 1/10/2019 | | | | 0.11 | <0.05 | 0.1 | 28.1 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.11 | 28 | <0.05 | 0.13 | <0.05 | <0.05 | <0.05 | 0.21 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 28.55 | - | - | - | - | - | - | - | - | - | - | - | - |
| 10-0.45 | 0.45 | 0.45 | AREA 1 | | 1/10/2019 | | | | 0.14 | <0.05 | 0.21 | 9.51 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.14 | 9.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.06 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 9.71 | | | | | | | | | | | | | |
| 11-0.0 | 0 | 0.1 | AREA 1A | | 1/10/2019 | | | | 0.34 | <0.05 | 0.06 | 36.06 | <0.05 | 0.1 | <0.05 | 0.18 | <0.05 | 0.52 | 36 | <0.05 | 0.31 | <0.05 | <0.05 | <0.05 | 0.73 | <0.05 | <0.05 | 0.18 | <0.05 | <0.05 | <1 | 37.9 | - | - | - | - | - | - | - | - | - | - | - | - |
| 11-0.45 | 0.45 | 0.45 | AREA 1A / AREA 1 | | 1/10/2019 | | | | 0.22 | <0.05 | <0.05 | 14 | <0.05 | <0.1 | <0.05 | 0.15 | <0.05 | 0.37 | 14 | <0.05 | 0.05 | <0.05 | <0.05 | <0.05 | 0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 14.52 | | | | | | | | | | | | | |
| 12-0.0 | 0 | 0.1 | AREA 1A / AREA 1 | | 1/10/2019 | | | | 0.15 | <0.05 | 0.81 | 4.31 | <0.05 | <0.1 | <0.05 | 0.15 | 0.21 | 0.51 | 3.5 | <0.05 | 0.28 | <0.05 | <0.05 | <0.05 | 0.08 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 5.18 | - | - | - | - | - | - | - | - | - | - | - | - |
| 12-0.25 | 0.25 | 0.25 | AREA 1 | | 1/10/2019 | | | | <0.05 | <0.05 | 0.11 | 0.47 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.36 | <0.05 | <0.05 | <0.05 | ——— | ——— | ——— | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.47 | | | | | | | | | | | | | |
| 13P-0.0 (HA07) | 0 | 0.1 | AREA 1B | | 1/10/2019 | | | | 0.13 | <0.05 | <0.05 | 7.5 | <0.05 | <0.1 | <0.05 | 0.11 | 0.08 | 0.32 | 7.5 | <0.05 | 0.17 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 7.99 | - | - | - | - | - | - | - | - | - | - | - | - |
| 13P-0.2 (HA07) | 0.2 | 0.2 | AREA 1B | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 10 | <0.05 | <0.1 | <0.05 | <0.05 | 0.05 | 0.05 | 10 | <0.05 | 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 10.21 | - | - | - | - | - | - | - | - | - | - | - | - |
| 14-0.0 | 0 | 0.1 | AREA 1A / AREA 1 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 0.07 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.07 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.07 | - | - | - | - | - | - | - | - | - | - | - | - |
| 14-0.45 | 0.45 | 0.45 | AREA 1 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | | | | |
| 14P-0.0 (HA10) | 0 | 0.1 | AREA 1A | | 1/10/2019 | | | | 0.12 | <0.05 | 1.1 | 61.1 | <0.05 | 0.1 | <0.05 | <0.05 | <0.05 | 0.12 | 60 | <0.05 | 0.58 | <0.05 | <0.05 | <0.05 | 0.62 | <0.05 | <0.05 | 0.09 | <0.05 | <0.05 | <1 | 62.61 | - | - | - | - | - | - | - | - | - | - | - | - |
| QC07 (DUP 14P-0.0 ) | 0 | 0.1 | AREA 1A | | 1/10/2019 | | | | 0.24 | <0.05 | 1.9 | 75.9 | <0.05 | 0.3 | <0.05 | 0.05 | <0.05 | 0.29 | 74 | <0.05 | 1.2 | <0.05 | <0.05 | <0.05 | 1.2 | <0.05 | 0.06 | 0.22 | <0.05 | <0.05 | <1 | 79.17 | | | | | | | | | | | | | |
| QC08 (TRIP 14P-0.0 ) | 0 | 0.1 | AREA 1A | | 1/10/2019 | | | | <0.05 | <0.05 | 2.32 | 109 | <0.05 | 0.37 | <0.05 | <0.05 | <0.2 | <0.05 | 107 | <0.05 | 1.4 | <0.05 | <0.05 | <0.05 | 1.47 | <0.05 | 0.16 | 0.22 | <0.05 | <0.2 | - | 112.94 | | | | | | | | | | | | | |
| 14P-0.42 (HA10) | 0.42 | 0.42 | AREA 1 | | 1/10/2019 | | | | <0.05 | <0.05 | 0.06 | 3.86 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 3.8 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 3.86 | | | | | | | | | | | | | |
| QC09 (DUP 14P-0.42) | 0 | 0.1 | AREA 2 | | 1/10/2019 | | | | <0.05 | <0.05 | 0.06 | 5.06 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 5 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 5.06 | | | | | | | | | | | | | |
| QC10 (TRIP 14P-0.42) | 0 | 0.1 | AREA 2 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 3.08 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 | 3.08 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | 3.08 | | | | | | | | | | | | | |
| 15-0.0 | 0 | 0.1 | AREA 1 | | 1/10/2019 | | | | <0.05 | <0.05 | 0.09 | 8.29 | <0.05 | 7.4 | <0.05 | <0.05 | <0.05 | <0.05 | 8.2 | 0.13 | 0.09 | 0.26 | <0.05 | <0.05 | 0.09 | <0.05 | 0.19 | 0.38 | <0.05 | <0.05 | <1 | 16.83 | - | - | - | - | - | - | - | - | - | - | - | - |
| 16-0.0 | 0 | 0.1 | AREA 1B / AREA 1 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.11 | <0.05 | <0.05 | <1 | 1.41 | - | - | - | - | - | - | - | - | - | - | - | - |

**DVA Greenslopes Soil Data Table - NEPM HIL-A and HIL-C**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Anthropogenic Materials | Sampled_Date | Asbestos | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | Polyaromatic Hydrocarbons (PA | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Asbestos (ID) (ND - not detected) | ACM (w/w) | Asbestos Fines (w/w) | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endrin aldehyde | Endrin ketone | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Total OCP | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(b+j)fluoranthene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene |
| | | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Units | - | - | - | | - | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | 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 |
| EQL | - | - | - | | - | - | | - | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 1 | 0.1 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| EIL - Res/Open Space | | | - | | | - | | - | | | | | | | | | 180 | | | | | | | | | | | | | | | | | | | | | | | | | | 0.7 | | | |
| HIL-A Residential | | | - | | | - | 0.01% | 0.001% | | | | 6 | | 50 | | | | 240 | | | | 270 | | | 10 | | 6 | | 10 | 300 | 20 | | 3 | 3 | 3 | | | | | | | | | | |
| HIL-C Recreational | | | - | | | - | 0.02% | 0.001% | | | | 10 | | 70 | | | | 400 | | | | 340 | | | 20 | | 10 | | 10 | 400 | 30 | | 3 | 3 | 3 | | | | | | | | | | |
| 16-0.45 | 0.45 | 0.45 | AREA 1 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | | | |
| 17-0.0 | 0 | 0.1 | AREA 2 | | 1/10/2019 | | | | 0.18 | <0.05 | <0.05 | 0.62 | <0.05 | <0.1 | <0.05 | <0.05 | 0.18 | 0.36 | 0.62 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.98 | - | - | - | - | - | - | - | - | - | - | - | - |
| 17-0.25 | 0.25 | 0.25 | AREA 2 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | | | |
| 18-0.0 | 0 | 0.1 | AREA 1C / AREA 1 | | 1/10/2019 | | | | 2.2 | <0.05 | <0.05 | 0.61 | <0.05 | <0.1 | <0.05 | 0.35 | 3.8 | 6.35 | 0.61 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 6.96 | - | - | - | - | - | - | - | - | - | - | - | - |
| 18-0.2 | 0.2 | 0.2 | AREA 1C / AREA 1 | | 1/10/2019 | | | | 0.11 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | 0.07 | 0.18 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.18 | - | - | - | - | - | - | - | - | - | - | - | - |
| 32-0.0 | 0 | 0.1 | AREA 2 | | 1/10/2019 | | | | 1.4 | <0.05 | <0.05 | 0.3 | <0.05 | 0.1 | <0.05 | 2.1 | 23 | 26.5 | 0.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 26.9 | - | - | - | - | - | - | - | - | - | - | - | - |
| 34-0.0 | 0 | 0.1 | AREA 1C | | 1/10/2019 | | | | 1 | <0.05 | 0.49 | 17.49 | <0.05 | <0.1 | <0.05 | 0.15 | 0.51 | 1.66 | 17 | <0.05 | 0.22 | <0.05 | <0.05 | <0.05 | 0.18 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 19.55 | - | - | - | - | - | - | - | - | - | - | - | - |
| 36-0.0 | 0 | 0.1 | AREA 2 | | 1/10/2019 | | | | 0.07 | <0.05 | <0.05 | 20 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.07 | 20 | <0.05 | 0.12 | <0.05 | <0.05 | <0.05 | 0.11 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 20.3 | - | - | - | - | - | - | - | - | - | - | - | - |
| BH01_0.1 | 0.1 | 0.1 | Area 4A | | 3/09/2021 | | | | 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.16 | | | | | | | | | | | | |
| BH02_0.1 | 0.1 | 0.1 | Area 4A | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | |
| BH03_0.1 | 0.1 | 0.1 | Area 4A | | 3/09/2021 | | | | 0.39 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | 0.06 | 0.31 | 0.76 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.76 | | | | | | | | | | | | |
| BH04_0.1 | 0.1 | 0.1 | Area 4A | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | |
| BH05_0.1 | 0.1 | 0.1 | Area 4A | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | |
| BH06_0.1 | 0.1 | 0.1 | Area 4B | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | |
| BH06_0.3 | 0.3 | 0.3 | Area 4B | Ash, slag fragments | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| BH06_0.5 | 0.5 | 0.5 | Area 4B | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | |
| BH07_0.1 | 0.1 | 0.1 | Area 4B | | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | |
| BH07_0.3 | 0.3 | 0.3 | Area 4B | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | |
| BH08_0.1 | 0.1 | 0.1 | Area 4B | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | |
| BH08_0.3 | 0.3 | 0.3 | AREA 1 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | |
| BH12_0.1 | 0.1 | 0.1 | AREA 2 | | 3/09/2021 | ND | | | 0.47 | <0.05 | <0.05 | 0.21 | <0.05 | 0.2 | <0.05 | 0.34 | 18 | 18.81 | 0.21 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 19.22 | | | | | | | | | | | | |
| BH13_0.1 | 0.1 | 0.1 | AREA 1B | | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | 0.1 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.1 | | | | | | | | | | | | |
| BH14_0.1 | 0.1 | 0.1 | AREA 1A | | 3/09/2021 | ND | | | <0.05 | <0.05 | 0.15 | 9.15 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 9 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 9.15 | | | | | | | | | | | | |
| BH14_0.3 | 0.3 | 0.3 | AREA 1 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | 0.91 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.91 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.91 | | | | | | | | | | | | |
| BH14_0.5 | 0.5 | 0.5 | AREA 1 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | 0.24 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.24 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.24 | | | | | | | | | | | | |
| BH15_0.1 | 0.1 | 0.1 | AREA 1B | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | 0.05 | 0.05 | <0.05 | <0.05 | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.1 | | | | | | | | | | | | |
| BH15_0.3 | 0.3 | 0.3 | AREA 1 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | |
| BH15_0.5 | 0.5 | 0.5 | AREA 1 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | |
| BH16_0.1 | 0.1 | 0.1 | Area 4B | | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | |
| BH16_0.3 | 0.3 | 0.3 | Area 4B | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | |
| BH16_0.5 | 0.5 | 0.5 | Area 4B | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | |
| BH17_0.1 | 0.1 | 0.1 | AREA 2 | | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | |
| BH17_0.3 | 0.3 | 0.3 | AREA 2 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | |
| QC09_210903 (DUP BH17_0.3) | 0.3 | 0.3 | AREA 2 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | |
| QC10_210903 (TRIP BH17_0.3) | 0.3 | 0.3 | AREA 2 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | | <0.1 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| BH17_0.5 | 0.5 | 0.5 | AREA 2 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| BH18_0.1 | 0.1 | 0.1 | AREA 2 | | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | |
| BH18_0.3 | 0.3 | 0.3 | AREA 2 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | |
| BH18_0.5 | 0.5 | 0.5 | AREA 2 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| BH19_0.1 | 0.1 | 0.1 | AREA 2 | | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | |
| BH19_0.3 | 0.3 | 0.3 | AREA 2 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

**DVA Greenslopes Soil Data Table - NEPM HIL-A and HIL-C**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Anthropogenic Materials | Sampled_Date | Asbestos | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | Polyaromatic Hydrocarbons (PA | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Asbestos (ID) (ND - not detected) | ACM (w/w) | Asbestos Fines (w/w) | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endrin aldehyde | Endrin ketone | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Total OCP | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(b+j)fluoranthene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene |
| | | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Units | - | - | - | | - | - | - | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | 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 |
| EQL | - | - | - | | - | - | | - | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 1 | 0.1 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| EIL - Res/Open Space | | | - | | | - | | - | | | | | | | | | 180 | | | | | | | | | | | | | | | | | | | | | | | | | | 0.7 | | | |
| HIL-A Residential | | | - | | | - | 0.01% | 0.001% | | | | 6 | | 50 | | | | 240 | | | | 270 | | | 10 | | 6 | | 10 | 300 | 20 | | 3 | 3 | 3 | | | | | | | | | | |
| HIL-C Recreational | | | - | | | - | 0.02% | 0.001% | | | | 10 | | 70 | | | | 400 | | | | 340 | | | 20 | | 10 | | 10 | 400 | 30 | | 3 | 3 | 3 | | | | | | | | | | |
| QC01_210903 (DUP BH19_0.3) | 0.3 | 0.3 | AREA 2 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| QC02_210903 (TRIP BH19_0.3) | 0.3 | 0.3 | AREA 2 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | | <0.1 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| BH19_0.5 | 0.5 | 0.5 | AREA 2 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | |
| BH20_0.1 | 0.1 | 0.1 | AREA 1 | | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | |
| BH20_0.3 | 0.3 | 0.3 | AREA 1 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | |
| BH20_0.5 | 0.5 | 0.5 | AREA 1 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | |
| BH21_0.1 | 0.1 | 0.1 | AREA 1B | | 3/09/2021 | | | | <0.05 | <0.05 | 98 | 103.2 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 5.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 103.2 | | | | | | | | | | | | | |
| BH21_0.3 | 0.3 | 0.3 | AREA 1 | | 3/09/2021 | | | | 0.07 | <0.05 | 0.98 | 1.41 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.07 | 0.43 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 1.48 | | | | | | | | | | | | | |
| BH21_0.5 | 0.5 | 0.5 | AREA 1 | | 3/09/2021 | | | | <0.05 | <0.05 | 0.12 | 0.12 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.12 | | | | | | | | | | | | | |
| MW01 - 0.1 | 0.1 | 0.1 | AREA 1 | | 17/11/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | |
| MW01 - 0.25 | 0.25 | 0.25 | AREA 1 | | 17/11/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | |
| MW01 - 0.50 | 0.5 | 0.5 | AREA 1 | | 17/11/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | |
| MW01_0.75 | 0.75 | 0.75 | AREA 1 | | 17/11/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW01_1.0 | 1 | 1 | AREA 1 | | 17/11/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SLAG-1 | SLAG-1 | SLAG-1 | SLAG | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| SLAG-2 | SLAG-2 | SLAG-2 | SLAG | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| BH01_CONCRETE | CONCRETE | CONCRETE | Area 4A | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | |
| BH03_CONCRETE | CONCRETE | CONCRETE | Area 4A | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | |
| BH05_CONCRETE | CONCRETE | CONCRETE | Area 4A | | 3/09/2021 | | | | 1.6 | <0.05 | <0.05 | 0.13 | <0.05 | <0.1 | <0.05 | 0.28 | 0.33 | 2.21 | 0.13 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 2.34 | | | | | | | | | | | | | |
| BH06_CONCRETE | CONCRETE | CONCRETE | Area 4B | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | |
| BH07_CONCRETE | CONCRETE | CONCRETE | Area 4B | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | |
| BH08_CONCRETE | CONCRETE | CONCRETE | Area 4B | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | |
| BH09_CONCRETE | CONCRETE | CONCRETE | AREA 1 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | |
| BH10_CONCRETE | CONCRETE | CONCRETE | AREA 1B | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | |
| BH11_CONCRETE | CONCRETE | CONCRETE | AREA 1 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | |
| BH21_CONCRETE | CONCRETE | CONCRETE | AREA 1B | | 3/09/2021 | | | | <0.05 | <0.05 | 0.38 | 0.73 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.35 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.73 | | | | | | | | | | | | | |

**DVA Greenslopes Soil Data Table - NEPM HIL-A and HIL-C**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Anthropogenic Materials | Sampled_Date | H) | | | | | | | | Metals | | | | | | | | | TRH | | | | BTEX | | | | | | | Other | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-cd)pyrene | Naphthalene | PAHs (Sum of total) | Phenanthrene | Pyrene | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc | Chromium (hexavalent) | C6-C10 | C10-C16 | C16-C34 | C34-C40 | Benzene | Toluene | Ethyl benzene | Xylene (m & p) | Xylene (o) | Xylenes | Total BTEX | CEC | pH | | |
| | | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Units | - | - | - | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | | | | | |
| EQL | - | - | - | | - | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 0.4 | 5 | 5 | 5 | 0.1 | 5 | 5 | 1 | | | | | | | | | | | | | | | |
| EIL - Res/Open Space | | | - | | | | | | | 170 | | | | 100 | | 245 | 196 | 1112 | | 287 | 420 | | 180 | 120 | 300 | 2800 | | | | | | | | | | | |
| HIL-A Residential | | | - | | | | | | | | 300 | | | 100 | 20 | 100 | 6000 | 300 | 10 | 400 | 7400 | 100 | 45 | 110 | 2500 | 10000 | | | | | | | | | | | |
| HIL-C Recreational | | | - | | | | | | | | 300 | | | 300 | 90 | 300 | 17000 | 600 | 13 | 1200 | 30000 | 300 | NL | NL | 2500 | 10000 | | | | | | | | | | | |
| SS01 | 0 | 0.1 | AREA 2 | ACM | 16/07/2013 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 32 | 0.7 | 54 | 21 | 39 | <0.1 | 35 | 760 | | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | | | | | |
| SS02 | 0 | 0.1 | AREA 1B / AREA 1 | ACM | 16/07/2013 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 10 | 1.4 | 12 | 27 | 100 | <0.1 | 8.4 | 2000 | | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | | | | | |
| SS03 | 0 | 0.1 | AREA 1 | | 16/07/2013 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 16 | 0.4 | 42 | 20 | 75 | <0.1 | 18 | 190 | | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | | | | | |
| SS04 | 0 | 0.1 | AREA 1 | | 16/07/2013 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 10 | 0.6 | 22 | 33 | 72 | <0.1 | 11 | 250 | | <20 | <50 | 260 | <100 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | | | | | |
| SA01/A01 | 0 | 0.1 | AREA 1 | ACM | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA02/A02 | 0 | 0.1 | AREA 1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA03/A03 | 0 | 0.1 | AREA 1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA04/A04 | 0 | 0.1 | AREA 1 | Slag, Brick | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA05/A05 | 0 | 0.1 | AREA 2 | Slag | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0 | 0.1 | AREA 2 | Slag | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0.3 | 0.4 | AREA 2 | Slag | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA07/A07 | 0 | 0.1 | AREA 4A | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA08/A08 | 0 | 0.1 | AREA 4A | Slag, Concrete, Wood | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA09/A09 | 0 | 0.1 | AREA 1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA10/A10 | 0 | 0.1 | AREA 1 | Slag | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA11/A11 | 0 | 0.1 | AREA 1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA13/A13 | 0 | 0.1 | AREA 1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Main Hall (under building) | 0 | 0 | AREA 2 | ACM | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accomodation Building (under building) | 0 | 0 | AREA 1 | ACM | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unsealed External Areas | 0 | 0.01 | - | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A01, A04, A10 | 0.15 | 0.15 | - | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A06, A10 | 0.15 | 0.15 | - | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA01 | 0 | 0.1 | AREA 2 | | 25/09/2013 | - | - | - | - | - | - | - | - | 9.3 | < 0.4 | 39 | 8.1 | 7.3 | < 0.1 | 20 | 64 | | | | | | | | | | | | | | | | |
| HA02 | 0 | 0.1 | AREA 3C | | 25/09/2013 | - | - | - | - | - | - | - | - | 14 | < 0.4 | 44 | 6.4 | 15 | < 0.1 | 24 | 44 | | | | | | | | | | | | | | | | |
| HA03 | 0 | 0.1 | AREA 3C | | 25/09/2013 | - | - | - | - | - | - | - | - | 20 | < 0.4 | 69 | 12 | 27 | < 0.1 | 25 | 92 | | | | | | | | | | | | | | | | |
| HA04 | 0 | 0.1 | AREA 2 | | 25/09/2013 | - | - | - | - | - | - | - | - | 14 | < 0.4 | 54 | 11 | 14 | < 0.1 | 16 | 26 | | | | | | | | | | | | | | | | |
| HA05 | 0 | 0.1 | AREA 2 | | 25/09/2013 | - | - | - | - | - | - | - | - | 17 | < 0.4 | 66 | 9.2 | 10 | < 0.1 | 19 | 45 | | | | | | | | | | | | | | | | |
| QC01 (DUP HA05) | 0 | 0.1 | AREA 2 | | 26/09/2013 | | | | | | | | | 21 | < 0.4 | 73 | 10 | 16 | < 0.1 | 20 | 54 | | | | | | | | | | | | | | | | |
| QC01A (TRIP HA05) | 0 | 0.1 | AREA 2 | | 26/09/2013 | | | | | | | | | 11 | < 0.4 | 90 | 12 | 20 | < 0.1 | 27 | 74 | | | | | | | | | | | | | | | | |
| HA06/SA11 | 0 | 0.1 | AREA 1C / AREA 1 | | 25/09/2013 | - | - | - | - | - | - | - | - | 22 | < 0.4 | 88 | 9.3 | 13 | < 0.1 | 19 | 41 | | | | | | | | | | | | | | | | |
| HA07/SA12 | 0 | 0.1 | AREA 1B / AREA 1 | | 25/09/2013 | - | - | - | - | - | - | - | - | 15 | < 0.4 | 43 | 13 | 63 | < 0.1 | 15 | 140 | | | | | | | | | | | | | 30 | 5.8 | | |
| HA08/SA13 | 0 | 0.1 | AREA 1 | | 25/09/2013 | - | - | - | - | - | - | - | - | 10 | < 0.4 | 39 | 14 | 50 | < 0.1 | 11 | 72 | | | | | | | | | | | | | | | | |
| HA09 | 0 | 0.2 | AREA 1B | | 25/09/2013 | - | - | - | - | - | - | - | - | 10 | < 0.4 | 25 | 24 | 120 | 0.1 | 8.8 | 380 | | | | | | | | | | | | | | | | |
| HA10 | 0 | 0.2 | AREA 1A | Slag, Coal | 25/09/2013 | - | - | - | - | - | - | - | - | 19 | < 0.4 | 22 | 19 | 120 | < 0.1 | 8.7 | 330 | | | | | | | | | | | | | | | | |
| HA11 | 0 | 0.1 | AREA 1 | | 25/09/2013 | - | - | - | - | - | - | - | - | 23 | < 0.4 | 50 | 15 | 140 | < 0.1 | 13 | 450 | | | | | | | | | | | | | 25 | 6.3 | | |
| 1-0.0 | 0 | 0.1 | AREA 2 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | |
| 1-0.3 | 0.3 | 0.3 | AREA 2 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-0.0 | 0 | 0.1 | AREA 3C | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | |
| QC01 (DUP 2-0.0) | 0 | 0.1 | AREA 3C | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC02 (TRIP 2-0.0) | 0 | 0.1 | AREA 3C | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**DVA Greenslopes Soil Data Table - NEPM HIL-A and HIL-C**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Anthropogenic Materials | Sampled_Date | H) | | | | | | | | Metals | | | | | | | | | TRH | | | | BTEX | | | | | | | Other | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | PAHs (Sum of total) | Phenanthrene | Pyrene | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc | Chromium (hexavalent) | C6-C10 | C10-C16 | C16-C34 | C34-C40 | Benzene | Toluene | Ethyl benzene | Xylene (m & p) | Xylene (o) | Xylenes | Total BTEX | CEC | pH | | |
| | | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Units | - | - | - | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | | | | |
| EQL | - | - | - | | - | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 0.4 | 5 | 5 | 5 | 0.1 | 5 | 5 | 1 | | | | | | | | | | | | | | | |
| EIL - Res/Open Space | | | - | | | | | | | 170 | | | | 100 | | 245 | 196 | 1112 | | 287 | 420 | | 180 | 120 | 300 | 2800 | | | | | | | | | | | |
| HIL-A Residential | | | - | | | | | | | | 300 | | | 100 | 20 | 100 | 6000 | 300 | 10 | 400 | 7400 | 100 | 45 | 110 | 2500 | 10000 | | | | | | | | | | | |
| HIL-C Recreational | | | - | | | | | | | | 300 | | | 300 | 90 | 300 | 17000 | 600 | 13 | 1200 | 30000 | 300 | NL | NL | 2500 | 10000 | | | | | | | | | | | |
| 2-0.3 | 0.3 | 0.3 | AREA 2 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC03 (DUP 2-0.3) | 0.3 | 0.3 | AREA 2 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC04 (TRIP 2-0.3) | 0.3 | 0.3 | AREA 2 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3-0.0 | 0 | 0.1 | AREA 3C | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | |
| 3-0.35 | 0.35 | 0.35 | AREA 3C | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4-0.0 | 0 | 0.1 | AREA 2 / AREA 3B | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | |
| 4-0.35 | 0.35 | 0.35 | AREA 2 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5-0.0 | 0 | 0.1 | AREA 2 / AREA 3B | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | |
| 5-0.35 | 0.35 | 0.35 | AREA 2 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6-0.0 | 0 | 0.1 | AREA 3A | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | |
| 6-0.45 | 0.45 | 0.45 | AREA 2 | Slag | 1/10/2019 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 2.1 | <0.4 | <5 | 11 | 32 | <0.1 | 5.8 | 72 | | | | | | | | | | | | | | | | |
| 6P-0.0 (HA02) | 0 | 0.1 | AREA 3C | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | |
| 6P-0.3 (HA02) | 0.3 | 0.3 | AREA 3C | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7-0.0 | 0 | 0.1 | AREA 3A | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | |
| 7-0.45 | 0.45 | 0.45 | AREA 2 | Slag | 1/10/2019 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 2.6 | <0.4 | <5 | 12 | 19 | <0.1 | 5.8 | 51 | | | | | | | | | | | | | | | | |
| 7P-0.0 (HA03) | 0 | 0.1 | AREA 3C | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | |
| 7P-0.25 (HA03) | 0.25 | 0.25 | AREA 3C | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8-0.0 | 0 | 0 | AREA 1B / AREA 1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | |
| 8-0.42 | 0.42 | 0.42 | AREA 1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9-0.0 | 0 | 0.1 | AREA 1B | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | |
| 9-0.42 | 0.42 | 0.42 | AREA 1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9P-0.0 (HA09) | 0 | 0.1 | AREA 1B | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | |
| 9P-0.45 (HA09) | 0.45 | 0.45 | AREA 1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10-0.0 | 0 | 0.1 | AREA 1B / AREA 1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | |
| 10-0.45 | 0.45 | 0.45 | AREA 1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11-0.0 | 0 | 0.1 | AREA 1A | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | |
| 11-0.45 | 0.45 | 0.45 | AREA 1A / AREA 1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12-0.0 | 0 | 0.1 | AREA 1A / AREA 1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | |
| 12-0.25 | 0.25 | 0.25 | AREA 1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13P-0.0 (HA07) | 0 | 0.1 | AREA 1B | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | |
| 13P-0.2 (HA07) | 0.2 | 0.2 | AREA 1B | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | |
| 14-0.0 | 0 | 0.1 | AREA 1A / AREA 1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | |
| 14-0.45 | 0.45 | 0.45 | AREA 1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14P-0.0 (HA10) | 0 | 0.1 | AREA 1A | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | |
| QC07 (DUP 14P-0.0 ) | 0 | 0.1 | AREA 1A | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC08 (TRIP 14P-0.0 ) | 0 | 0.1 | AREA 1A | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14P-0.42 (HA10) | 0.42 | 0.42 | AREA 1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC09 (DUP 14P-0.42) | 0 | 0.1 | AREA 2 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC10 (TRIP 14P-0.42) | 0 | 0.1 | AREA 2 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15-0.0 | 0 | 0.1 | AREA 1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | |
| 16-0.0 | 0 | 0.1 | AREA 1B / AREA 1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | |

**DVA Greenslopes Soil Data Table - NEPM HIL-A and HIL-C**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Anthropogenic Materials | Sampled_Date | H) | | | | | | | | Metals | | | | | | | | | TRH | | | | BTEX | | | | | | | Other | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | PAHs (Sum of total) | Phenanthrene | Pyrene | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc | Chromium (hexavalent) | C6-C10 | C10-C16 | C16-C34 | C34-C40 | Benzene | Toluene | Ethyl benzene | Xylene (m & p) | Xylene (o) | Xylenes | Total BTEX | CEC | pH | | |
| | | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Units | - | - | - | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | | | | |
| EQL | - | - | - | | - | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 0.4 | 5 | 5 | 5 | 0.1 | 5 | 5 | 1 | | | | | | | | | | | | | | | |
| EIL - Res/Open Space | | | - | | | | | | | 170 | | | | 100 | | 245 | 196 | 1112 | | 287 | 420 | | 180 | 120 | 300 | 2800 | | | | | | | | | | | |
| HIL-A Residential | | | - | | | | | | | | 300 | | | 100 | 20 | 100 | 6000 | 300 | 10 | 400 | 7400 | 100 | 45 | 110 | 2500 | 10000 | | | | | | | | | | | |
| HIL-C Recreational | | | - | | | | | | | | 300 | | | 300 | 90 | 300 | 17000 | 600 | 13 | 1200 | 30000 | 300 | NL | NL | 2500 | 10000 | | | | | | | | | | | |
| 16-0.45 | 0.45 | 0.45 | AREA 1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17-0.0 | 0 | 0.1 | AREA 2 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | |
| 17-0.25 | 0.25 | 0.25 | AREA 2 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18-0.0 | 0 | 0.1 | AREA 1C / AREA 1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | |
| 18-0.2 | 0.2 | 0.2 | AREA 1C / AREA 1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | |
| 32-0.0 | 0 | 0.1 | AREA 2 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | |
| 34-0.0 | 0 | 0.1 | AREA 1C | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | |
| 36-0.0 | 0 | 0.1 | AREA 2 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | |
| BH01_0.1 | 0.1 | 0.1 | Area 4A | | 3/09/2021 | | | | | | | | | <2 | <0.4 | 45 | 6.1 | 5.6 | <0.1 | 22 | 22 | | | | | | | | | | | | | | | | |
| BH02_0.1 | 0.1 | 0.1 | Area 4A | | 3/09/2021 | | | | | | | | | <2 | <0.4 | 37 | <5 | <5 | <0.1 | 18 | 16 | | | | | | | | | | | | | | | | |
| BH03_0.1 | 0.1 | 0.1 | Area 4A | | 3/09/2021 | | | | | | | | | 6.5 | <0.4 | 70 | 6.6 | 40 | <0.1 | 22 | 29 | | | | | | | | | | | | | | | | |
| BH04_0.1 | 0.1 | 0.1 | Area 4A | | 3/09/2021 | | | | | | | | | 3.4 | <0.4 | 49 | <5 | <5 | <0.1 | 9.2 | 16 | | | | | | | | | | | | | | | | |
| BH05_0.1 | 0.1 | 0.1 | Area 4A | | 3/09/2021 | | | | | | | | | 12 | <0.4 | 75 | 7.1 | 5.5 | <0.1 | 14 | 19 | | | | | | | | | | | | | | | | |
| BH06_0.1 | 0.1 | 0.1 | Area 4B | | 3/09/2021 | | | | | | | | | 4.6 | <0.4 | 5.6 | 6.4 | 6.6 | <0.1 | <5 | 19 | | | | | | | | | | | | | | | | |
| BH06_0.3 | 0.3 | 0.3 | Area 4B | Ash, slag fragments | 3/09/2021 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 5.7 | <0.4 | 13 | 5.9 | 11 | <0.1 | <5 | 24 | | | | | | | | | | | | | | | | |
| BH06_0.5 | 0.5 | 0.5 | Area 4B | | 3/09/2021 | | | | | | | | | 8.8 | <0.4 | 150 | 21 | <5 | <0.1 | 45 | 27 | | | | | | | | | | | | | | | | |
| BH07_0.1 | 0.1 | 0.1 | Area 4B | | 3/09/2021 | | | | | | | | | 7 | <0.4 | 5.6 | 7.4 | 6.6 | <0.1 | <5 | 19 | | | | | | | | | | | | | | | | |
| BH07_0.3 | 0.3 | 0.3 | Area 4B | | 3/09/2021 | | | | | | | | | 8.7 | <0.4 | 170 | 10 | 6.7 | <0.1 | 30 | 32 | | | | | | | | | | | | | | | | |
| BH08_0.1 | 0.1 | 0.1 | Area 4B | | 3/09/2021 | | | | | | | | | 4.6 | <0.4 | 100 | 6.7 | <5 | <0.1 | 15 | 14 | | | | | | | | | | | | | | | | |
| BH08_0.3 | 0.3 | 0.3 | AREA 1 | | 3/09/2021 | | | | | | | | | 3.7 | <0.4 | 110 | 11 | <5 | <0.1 | 26 | 20 | | | | | | | | | | | | | | | | |
| BH12_0.1 | 0.1 | 0.1 | AREA 2 | | 3/09/2021 | | | | | | | | | 6.4 | 0.9 | 79 | 21 | 54 | <0.1 | 66 | 160 | | | | | | | | | | | | | | | | |
| BH13_0.1 | 0.1 | 0.1 | AREA 1B | | 3/09/2021 | | | | | | | | | 10 | 0.5 | 73 | 30 | 110 | <0.1 | 25 | 250 | | | | | | | | | | | | | | | | |
| BH14_0.1 | 0.1 | 0.1 | AREA 1A | | 3/09/2021 | | | | | | | | | 7.7 | <0.4 | 16 | 13 | 120 | <0.1 | 6.9 | 210 | | | | | | | | | | | | | | | | |
| BH14_0.3 | 0.3 | 0.3 | AREA 1 | | 3/09/2021 | | | | | | | | | 6.1 | <0.4 | 6.7 | 7.8 | 33 | <0.1 | <5 | 48 | | | | | | | | | | | | | | | | |
| BH14_0.5 | 0.5 | 0.5 | AREA 1 | | 3/09/2021 | | | | | | | | | 2.1 | <0.4 | 59 | 6.7 | 6.7 | <0.1 | 17 | 20 | | | | | | | | | | | | | | | | |
| BH15_0.1 | 0.1 | 0.1 | AREA 1B | | 3/09/2021 | | | | | | | | | 7.3 | <0.4 | 32 | 25 | 160 | <0.1 | 13 | 250 | | | | | | | | | | | | | | | | |
| BH15_0.3 | 0.3 | 0.3 | AREA 1 | | 3/09/2021 | | | | | | | | | 6.7 | <0.4 | 67 | 8.6 | 9.8 | <0.1 | 14 | 26 | | | | | | | | | | | | | | | | |
| BH15_0.5 | 0.5 | 0.5 | AREA 1 | | 3/09/2021 | | | | | | | | | 6.8 | <0.4 | 66 | 11 | <5 | <0.1 | 15 | 18 | | | | | | | | | | | | | | | | |
| BH16_0.1 | 0.1 | 0.1 | Area 4B | | 3/09/2021 | | | | | | | | | 19 | <0.4 | 30 | 20 | 160 | <0.1 | 9.5 | 320 | | | | | | | | | | | | | | | | |
| BH16_0.3 | 0.3 | 0.3 | Area 4B | | 3/09/2021 | | | | | | | | | 11 | <0.4 | 79 | 12 | 47 | <0.1 | 21 | 53 | | | | | | | | | | | | | | | | |
| BH16_0.5 | 0.5 | 0.5 | Area 4B | | 3/09/2021 | | | | | | | | | 12 | <0.4 | 150 | 20 | 9.7 | <0.1 | 45 | 43 | | | | | | | | | | | | | | | | |
| BH17_0.1 | 0.1 | 0.1 | AREA 2 | | 3/09/2021 | | | | | | | | | 4.1 | <0.4 | 45 | 20 | 65 | <0.1 | 21 | 75 | | | | | | | | | | | | | | | | |
| BH17_0.3 | 0.3 | 0.3 | AREA 2 | Ash, slag | 3/09/2021 | | | | | | | | | 3.1 | <0.4 | 8.9 | 23 | 75 | <0.1 | 5.1 | 130 | | | | | | | | | | | | | | | | |
| QC09_210903 (DUP BH17_0.3) | 0.3 | 0.3 | AREA 2 | Ash, slag | 3/09/2021 | | | | | | | | | 4 | <0.4 | 8.9 | 15 | 78 | <0.1 | <5 | 120 | | | | | | | | | | | | | | | | |
| QC10_210903 (TRIP BH17_0.3) | 0.3 | 0.3 | AREA 2 | Ash, slag | 3/09/2021 | <0.5 | <0.5 | <0.5 | <0.5 | | <0.5 | <0.5 | <0.5 | <5 | <1 | 6 | 74 | 87 | <0.1 | 9 | 131 | | | | | | | | | | | | | | | | |
| BH17_0.5 | 0.5 | 0.5 | AREA 2 | Ash, slag | 3/09/2021 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2 | <0.4 | <5 | 16 | 8 | <0.1 | <5 | 14 | | | | | | | | | | | | | | | | |
| BH18_0.1 | 0.1 | 0.1 | AREA 2 | | 3/09/2021 | | | | | | | | | 5 | <0.4 | 51 | 18 | 37 | <0.1 | 25 | 79 | | | | | | | | | | | | | | | | |
| BH18_0.3 | 0.3 | 0.3 | AREA 2 | Ash, slag | 3/09/2021 | | | | | | | | | <2 | <0.4 | 24 | 22 | 29 | <0.1 | 15 | 39 | | | | | | | | | | | | | | | | |
| BH18_0.5 | 0.5 | 0.5 | AREA 2 | Ash, slag | 3/09/2021 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 23 | <0.4 | 39 | 14 | 27 | <0.1 | 14 | 31 | | | | | | | | | | | | | | | | |
| BH19_0.1 | 0.1 | 0.1 | AREA 2 | | 3/09/2021 | | | | | | | | | 5.5 | <0.4 | 21 | 19 | 76 | <0.1 | 9.4 | 97 | | | | | | | | | | | | | | | | |
| BH19_0.3 | 0.3 | 0.3 | AREA 2 | Ash, slag | 3/09/2021 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 3.5 | <0.4 | 53 | 25 | 110 | <0.1 | 20 | 100 | | | | | | | | | | | | | | | | |

**DVA Greenslopes Soil Data Table - NEPM HIL-A and HIL-C**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Area | Anthropogenic Materials | Sampled_Date | H) | | | | | | | | Metals | | | | | | | | | TRH | | | | BTEX | | | | | | | Other | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | PAHs (Sum of total) | Phenanthrene | Pyrene | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc | Chromium (hexavalent) | C6-C10 | C10-C16 | C16-C34 | C34-C40 | Benzene | Toluene | Ethyl benzene | Xylene (m & p) | Xylene (o) | Xylenes | Total BTEX | CEC | pH | | |
| | | | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Units | - | - | - | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | | | | |
| EQL | - | - | - | | - | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 0.4 | 5 | 5 | 5 | 0.1 | 5 | 5 | 1 | | | | | | | | | | | | | | | |
| EIL - Res/Open Space | | | - | | | | | | | 170 | | | | 100 | | 245 | 196 | 1112 | | 287 | 420 | | 180 | 120 | 300 | 2800 | | | | | | | | | | | |
| HIL-A Residential | | | - | | | | | | | | 300 | | | 100 | 20 | 100 | 6000 | 300 | 10 | 400 | 7400 | 100 | 45 | 110 | 2500 | 10000 | | | | | | | | | | | |
| HIL-C Recreational | | | - | | | | | | | | 300 | | | 300 | 90 | 300 | 17000 | 600 | 13 | 1200 | 30000 | 300 | NL | NL | 2500 | 10000 | | | | | | | | | | | |
| QC01_210903 (DUP BH19_0.3) | 0.3 | 0.3 | AREA 2 | Ash, slag | 3/09/2021 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 2.6 | <0.4 | 39 | 15 | 65 | <0.1 | 9.7 | 62 | | | | | | | | | | | | | | | | |
| QC02_210903 (TRIP BH19_0.3) | 0.3 | 0.3 | AREA 2 | Ash, slag | 3/09/2021 | <0.5 | <0.5 | <0.5 | <0.5 | | <0.5 | <0.5 | <0.5 | <5 | <1 | 16 | 14 | 86 | <0.1 | 8 | 64 | | | | | | | | | | | | | | | | |
| BH19_0.5 | 0.5 | 0.5 | AREA 2 | | 3/09/2021 | | | | | | | | | 2.2 | <0.4 | 73 | 7.6 | 11 | <0.1 | 14 | 21 | | | | | | | | | | | | | | | | |
| BH20_0.1 | 0.1 | 0.1 | AREA 1 | | 3/09/2021 | | | | | | | | | 3.3 | <0.4 | 48 | 32 | 68 | <0.1 | 9.9 | 88 | | | | | | | | | | | | | | | | |
| BH20_0.3 | 0.3 | 0.3 | AREA 1 | | 3/09/2021 | | | | | | | | | 3.4 | <0.4 | 72 | 20 | 20 | <0.1 | 22 | 39 | | | | | | | | | | | | | | | | |
| BH20_0.5 | 0.5 | 0.5 | AREA 1 | | 3/09/2021 | | | | | | | | | 3.2 | <0.4 | 100 | 18 | <5 | <0.1 | 41 | 27 | | | | | | | | | | | | | | | | |
| BH21_0.1 | 0.1 | 0.1 | AREA 1B | | 3/09/2021 | | | | | | | | | <2 | <0.4 | 7.8 | <5 | 8.5 | <0.1 | <5 | 31 | | | | | | | | | | | | | | | | |
| BH21_0.3 | 0.3 | 0.3 | AREA 1 | | 3/09/2021 | | | | | | | | | 12 | <0.4 | 170 | 30 | 120 | <0.1 | 61 | 160 | | | | | | | | | | | | | | | | |
| BH21_0.5 | 0.5 | 0.5 | AREA 1 | | 3/09/2021 | | | | | | | | | 11 | <0.4 | 180 | 28 | <5 | <0.1 | 84 | 34 | | | | | | | | | | | | | | | | |
| MW01 - 0.1 | 0.1 | 0.1 | AREA 1 | | 17/11/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW01 - 0.25 | 0.25 | 0.25 | AREA 1 | | 17/11/2021 | | | | | | | | | 9.9 | <0.4 | 6.5 | 25 | 21 | <0.1 | 7.8 | 80 | <1 | | | | | | | | | | | | 17 | 5.5 | | |
| MW01 - 0.50 | 0.5 | 0.5 | AREA 1 | | 17/11/2021 | | | | | | | | | <2 | <0.4 | 89 | 9.3 | <5 | <0.1 | 23 | 19 | <1 | | | | | | | | | | | | | | | |
| MW01_0.75 | 0.75 | 0.75 | AREA 1 | | 17/11/2021 | | | | | | | | | 3.5 | <0.5 | 120 | 24 | <5 | <0.1 | 52 | 30 | <1 | | | | | | | | | | | | 33 | 6.6 | | |
| MW01_1.0 | 1 | 1 | AREA 1 | | 17/11/2021 | | | | | | | | | 3.5 | <0.5 | 100 | 21 | <5 | <0.1 | 54 | 25 | <1 | | | | | | | | | | | | | | | |
| SLAG-1 | SLAG-1 | SLAG-1 | SLAG | | 3/09/2021 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2 | <0.4 | <5 | <5 | 10 | <0.1 | <5 | 19 | <1 | | | | | | | | | | | | | | | |
| SLAG-2 | SLAG-2 | SLAG-2 | SLAG | | 3/09/2021 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2 | <0.4 | <5 | <5 | <5 | <0.1 | <5 | <5 | <1 | | | | | | | | | | | | | | | |
| BH01_CONCRETE | CONCRETE | CONCRETE | Area 4A | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH03_CONCRETE | CONCRETE | CONCRETE | Area 4A | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH05_CONCRETE | CONCRETE | CONCRETE | Area 4A | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH06_CONCRETE | CONCRETE | CONCRETE | Area 4B | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH07_CONCRETE | CONCRETE | CONCRETE | Area 4B | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH08_CONCRETE | CONCRETE | CONCRETE | Area 4B | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH09_CONCRETE | CONCRETE | CONCRETE | AREA 1 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH10_CONCRETE | CONCRETE | CONCRETE | AREA 1B | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH11_CONCRETE | CONCRETE | CONCRETE | AREA 1 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH21_CONCRETE | CONCRETE | CONCRETE | AREA 1B | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

DVA Greenslopes Soil Data Table - NEPM HIL-D

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Anthropogenic Materials | Sampled_Date | Asbestos | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Asbestos (ID) | ACM (w/w) | Asbestos Fines (w/w) | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endrin aldehyde | Endrin ketone | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Total OCP | Azinophos methyl | Bolstar (Sulprofos) | Chlorfenvinphos | Chlorpyrifos | Chlorpyrifos-methyl | Coumaphos | Demeton-O | Demeton-S | Diazinon | Dichlorvos | Dimethoate |
| Units | - | - | | - | - | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | | mg/kg | | | mg/kg | | mg/kg | mg/kg | |
| EQL | - | - | | - | - | | - | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 1 | 0.1 | | | | | | | | | | | |
| HIL-D Commercial/Industrial | | | | | - | 0.05% | 0.001% | | | | 45 | | 530 | | | | 3600 | | | | 2000 | | | 100 | | 50 | | 80 | 2500 | 160 | | | | | | | | | | | | |
| SS01 | 0 | 0.1 | ACM | 16/07/2013 | Chrysotile | | 0.007% (*) | 1.3 | <0.05 | <0.05 | <0.12 | <0.05 | 0.9 | <0.05 | 1.7 | 3.7 | 6.7 | 0.07 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | 7.67 | <0.2 | <0.2 | | <0.2 | | | <0.2 | | <0.2 | <0.2 | |
| SS02 | 0 | 0.1 | ACM | 16/07/2013 | Chrysotile | | 0.022% (*) | <0.05 | <0.05 | <0.05 | <0.25 | <0.05 | 20 | <0.05 | <0.05 | 0.12 | <0.22 | 0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.26 | <0.05 | <0.05 | <0.1 | 20.58 | <0.2 | <0.2 | | <0.2 | | | <0.2 | | <0.2 | <0.2 | |
| SS03 | 0 | 0.1 | | 16/07/2013 | ND | | ND | 0.09 | <0.05 | 0.11 | 1.81 | <0.05 | 0.3 | <0.05 | <0.05 | 0.13 | <0.27 | 1.7 | <0.05 | 0.07 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | 2.4 | <0.2 | <0.2 | | <0.2 | | | <0.2 | | <0.2 | <0.2 | |
| SS04 | 0 | 0.1 | | 16/07/2013 | ND | | ND | <0.05 | <0.05 | <0.05 | 1.15 | <0.05 | 8.2 | <0.05 | <0.05 | <0.05 | <0.15 | 1.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.24 | <0.05 | <0.05 | <0.1 | 9.54 | <0.2 | <0.2 | | <0.2 | | | <0.2 | | <0.2 | <0.2 | |
| SA01/A01 | 0 | 0.1 | ACM | 25/09/2013 | Chrysotile | | 0.0005% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA02/A02 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA03/A03 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA04/A04 | 0 | 0.1 | Slag, Brick | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA05/A05 | 0 | 0.1 | Slag | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0 | 0.1 | Slag | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0.3 | 0.4 | Slag | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA07/A07 | 0 | 0.1 | | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA08/A08 | 0 | 0.1 | Slag, Concrete, Wood | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA09/A09 | 0 | 0.1 | | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA10/A10 | 0 | 0.1 | Slag | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA11/A11 | 0 | 0.1 | | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA13/A13 | 0 | 0.1 | | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Main Hall (under building) | 0 | 0 | ACM | 25/09/2013 | | 0.0149% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accomodation Building (under building) | 0 | 0 | ACM | 25/09/2013 | | 0.0303% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unsealed External Areas | 0 | 0.01 | | 25/09/2013 | | 0.0084% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A01, A04, A10 | 0.15 | 0.15 | | 25/09/2013 | | 0.0090% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A06, A10 | 0.15 | 0.15 | | 25/09/2013 | | 0.0038% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA01 | 0 | 0.1 | | 25/09/2013 | | | | 0.27 | - | 0.07 | 0.21 | < 0.05 | 31 | < 0.05 | 0.08 | 1.1 | 1.45 | 0.14 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.13 | < 0.05 | < 0.05 | < 0.05 | < 1 | 32.79 | | | | | | | | | | | | |
| HA02 | 0 | 0.1 | | 25/09/2013 | | | | 0.23 | - | < 0.05 | <0.1 | < 0.05 | 51 | < 0.05 | 0.09 | 0.73 | 1.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.08 | 0.23 | < 0.05 | < 0.05 | < 1 | 52.36 | | | | | | | | | | | | |
| HA03 | 0 | 0.1 | | 25/09/2013 | | | | 0.57 | - | < 0.05 | <0.11 | < 0.05 | 140 | < 0.05 | 0.18 | 1.6 | 2.35 | 0.06 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.14 | 0.51 | < 0.05 | < 0.05 | < 1 | 143.06 | | | | | | | | | | | | |
| HA04 | 0 | 0.1 | | 25/09/2013 | | | | < 0.05 | - | < 0.05 | <0.1 | < 0.05 | 4.7 | < 0.05 | < 0.05 | 0.41 | <0.51 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.07 | < 0.05 | < 0.05 | < 1 | 5.18 | | | | | | | | | | | | |
| HA05 | 0 | 0.1 | | 25/09/2013 | | | | < 0.05 | - | < 0.05 | <0.1 | < 0.05 | < 0.1 | < 0.05 | < 0.05 | 0.12 | <0.22 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 0.12 | | | | | | | | | | | | |
| QC01 (DUP HA05) | 0 | 0.1 | | 26/09/2013 | | | | < 0.05 | - | < 0.05 | <0.1 | < 0.05 | < 0.1 | < 0.05 | < 0.05 | 0.06 | <0.22 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 0.06 | | | | | | | | | | | | |
| QC01A (TRIP HA05) | 0 | 0.1 | | 26/09/2013 | | | | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.3 | <0.1 | <0.1 | | <0.1 | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | | <0.1 | | | | | | | | | | | | |
| HA06/SA11 | 0 | 0.1 | | 25/09/2013 | ND | | | 0.49 | - | < 0.05 | <0.87 | < 0.05 | < 0.1 | < 0.05 | 0.27 | 4.2 | 4.96 | 0.82 | < 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 5.83 | | | | | | | | | | | | |
| HA07/SA12 | 0 | 0.1 | | 25/09/2013 | | | | 0.05 | - | 0.26 | 28.26 | < 0.05 | 0.3 | < 0.05 | < 0.05 | 0.26 | <0.36 | 28 | < 0.05 | 0.96 | < 0.05 | < 0.05 | < 0.05 | 0.7 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 30.53 | | | | | | | | | | | | |
| HA08/SA13 | 0 | 0.1 | | 25/09/2013 | ND | | | < 0.05 | - | < 0.05 | <0.13 | < 0.05 | < 0.1 | < 0.05 | < 0.05 | 0.13 | <0.23 | 0.08 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 0.21 | | | | | | | | | | | | |
| HA09 | 0 | 0.2 | | 25/09/2013 | | | | 0.07 | - | 0.06 | 55.06 | < 0.05 | 0.3 | < 0.05 | < 0.05 | 0.22 | <0.34 | 55 | < 0.05 | 0.58 | < 0.05 | < 0.05 | < 0.05 | 0.93 | < 0.05 | < 0.05 | 0.06 | < 0.05 | < 0.05 | < 1 | 57.22 | | | | | | | | | | | | |
| HA10 | 0 | 0.2 | Slag, Coal | 25/09/2013 | | | | < 0.5 | - | 86 | 506 | < 0.05 | 5.4 | < 0.05 | < 0.05 | < 0.05 | <0.55 | 420 | < 0.05 | 8.5 | < 0.05 | < 0.05 | < 0.05 | 6.5 | < 0.05 | 0.87 | 0.11 | < 0.05 | < 0.05 | < 1 | 527.38 | | | | | | | | | | | | |
| HA11 | 0 | 0.1 | | 25/09/2013 | | | | 0.13 | - | < 0.05 | <0.44 | < 0.05 | 42 | < 0.05 | 0.06 | 0.16 | 0.35 | 0.39 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.2 | 1 | < 0.05 | < 0.05 | < 1 | 43.94 | | | | | | | | | | | | |
| 1-0.0 | 0 | 0.1 | | 1/10/2019 | | | | 0.82 | <0.05 | <0.05 | <0.05 | <0.05 | 0.3 | <0.05 | 0.13 | 0.9 | 1.85 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 2.15 | | | | | | | | | | | | |
| 1-0.3 | 0.3 | 0.3 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | | | |
| 2-0.0 | 0 | 0.1 | | 1/10/2019 | | | | 0.09 | <0.05 | <0.05 | 0.06 | <0.05 | 5.2 | <0.05 | <0.05 | 0.33 | 0.42 | 0.06 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 5.68 | | | | | | | | | | | | |
| QC01 (DUP 2-0.0) | 0 | 0.1 | | 1/10/2019 | | | | 0.11 | <0.05 | <0.05 | <0.05 | <0.05 | 2.1 | <0.05 | 0.36 | 0.06 | 0.53 | <0.05 | 0.05 | <0.05 | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 2.73 | | | | | | | | | | | | |
| QC02 (TRIP 2-0.0) | 0 | 0.1 | | 1/10/2019 | | | | 0.14 | <0.05 | <0.05 | <0.05 | <0.05 | 5.84 | <0.05 | <0.05 | 0.9 | 1.04 | <0.05 | <0.05 | <0.05 | <1.02 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.06 | <0.05 | <0.2 | - | 6.94 | | | | | | | | | | | | |
| 2-0.3 | 0.3 | 0.3 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.2 | | | | | | | | | | | | |
| QC03 (DUP 2-0.3) | 0.3 | 0.3 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | | | |
| QC04 (TRIP 2-0.3) | 0.3 | 0.3 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.23 | <0.05 | <0.05 | <0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | 0.23 | | | | | | | | | | | | |

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Anthropogenic Materials | Sampled_Date | Asbestos | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Asbestos (ID) | ACM (w/w) | Asbestos Fines (w/w) | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endrin aldehyde | Endrin ketone | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Total OCP | Azinophos methyl | Bolstar (Sulprofos) | Chlorfenvinphos | Chlorpyrifos | Chlorpyrifos-methyl | Coumaphos | Demeton-O | Demeton-S | Diazinon | Dichlorvos | Dimethoate |
| Units | - | - | | - | - | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | | mg/kg | | | mg/kg | | mg/kg | mg/kg | |
| EQL | - | - | | - | - | | - | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 1 | 0.1 | | | | | | | | | | | |
| HIL-D Commercial/Industrial | | | | | - | 0.05% | 0.001% | | | | 45 | | 530 | | | | 3600 | | | | 2000 | | | 100 | | 50 | | 80 | 2500 | 160 | | | | | | | | | | | | |
| 3-0.0 | 0 | 0.1 | | 1/10/2019 | | | | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.9 | <0.05 | 0.27 | 0.59 | 0.91 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 2.81 | | | | | | | | | | | |
| 3-0.35 | 0.35 | 0.35 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | | |
| 4-0.0 | 0 | 0.1 | | 1/10/2019 | | | | 0.31 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | 4.1 | 4.41 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 4.41 | | | | | | | | | | | |
| 4-0.35 | 0.35 | 0.35 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | | |
| 5-0.0 | 0 | 0.1 | | 1/10/2019 | | | | 1.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | 1.5 | 5.4 | 8.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 8.2 | | | | | | | | | | | |
| 5-0.35 | 0.35 | 0.35 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | | |
| 6-0.0 | 0 | 0.1 | | 1/10/2019 | | | | 0.17 | <0.05 | <0.05 | 0.08 | <0.05 | 5.5 | <0.05 | 0.06 | <0.05 | 0.23 | 0.08 | 0.07 | <0.05 | <0.05 | <0.05 | <0.05 | 0.05 | <0.05 | 0.26 | 0.89 | <0.05 | <0.05 | <0.05 | <1 | 7.08 | | | | | | | | | | | |
| 6-0.45 | 0.45 | 0.45 | Slag | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.5 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.26 | <0.05 | <0.05 | <0.05 | <1 | 0.76 | | | | | | | | | | | |
| 6P-0.0 (HA02) | 0 | 0.1 | | 1/10/2019 | | | | 0.19 | <0.05 | <0.05 | <0.05 | <0.05 | 4.2 | <0.05 | 0.06 | 0.33 | 0.58 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 4.78 | | | | | | | | | | | |
| 6P-0.3 (HA02) | 0.3 | 0.3 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.3 | | | | | | | | | | | |
| 7-0.0 | 0 | 0.1 | | 1/10/2019 | | | | 0.26 | <0.05 | <0.05 | <0.05 | <0.05 | 16 | <0.05 | 0.08 | <0.05 | 0.34 | <0.05 | 0.24 | <0.05 | <0.05 | <0.05 | <0.05 | 0.12 | <0.05 | 1 | 3.4 | <0.05 | <0.05 | <0.05 | <1 | 21.1 | | | | | | | | | | | |
| 7-0.45 | 0.45 | 0.45 | Slag | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.4 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.18 | <0.05 | <0.05 | <0.05 | <1 | 0.58 | | | | | | | | | | | |
| 7P-0.0 (HA03) | 0 | 0.1 | | 1/10/2019 | | | | 0.15 | <0.05 | <0.05 | <0.05 | <0.05 | 2.3 | <0.05 | 0.05 | 0.17 | 0.37 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.09 | <0.05 | <0.05 | <0.05 | <1 | 2.76 | | | | | | | | | | | |
| 7P-0.25 (HA03) | 0.25 | 0.25 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.4 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.4 | | | | | | | | | | | |
| 8-0.0 | 0 | 0 | | 1/10/2019 | | | | 0.1 | <0.05 | 0.56 | 23.56 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.1 | 23 | <0.05 | 0.12 | <0.05 | <0.05 | <0.05 | 0.23 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 24.01 | | | | | | | | | | | |
| 8-0.42 | 0.42 | 0.42 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 1.3 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 1.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 1.3 | | | | | | | | | | | |
| 9-0.0 | 0 | 0.1 | | 1/10/2019 | | | | 0.2 | <0.05 | 0.08 | 60.08 | <0.05 | 0.2 | <0.05 | <0.05 | <0.05 | 0.2 | 60 | <0.05 | 0.36 | <0.05 | <0.05 | <0.05 | 0.83 | <0.05 | <0.05 | 0.06 | <0.05 | <0.05 | <0.05 | <1 | 61.73 | | | | | | | | | | | |
| 9-0.42 | 0.42 | 0.42 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 0.36 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.36 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.36 | | | | | | | | | | | |
| 9P-0.0 (HA09) | 0 | 0.1 | | 1/10/2019 | | | | 0.1 | <0.05 | <0.05 | 18 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.1 | 18 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 18.26 | | | | | | | | | | | |
| 9P-0.45 (HA09) | 0.45 | 0.45 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 0.13 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.13 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.13 | | | | | | | | | | | |
| 10-0.0 | 0 | 0.1 | | 1/10/2019 | | | | 0.11 | <0.05 | 0.1 | 28.1 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.11 | 28 | <0.05 | 0.13 | <0.05 | <0.05 | <0.05 | 0.21 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 28.55 | | | | | | | | | | | |
| 10-0.45 | 0.45 | 0.45 | | 1/10/2019 | | | | 0.14 | <0.05 | 0.21 | 9.51 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.14 | 9.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.06 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 9.71 | | | | | | | | | | | |
| 11-0.0 | 0 | 0.1 | | 1/10/2019 | | | | 0.34 | <0.05 | 0.06 | 36.06 | <0.05 | 0.1 | <0.05 | 0.18 | <0.05 | 0.52 | 36 | <0.05 | 0.31 | <0.05 | <0.05 | <0.05 | 0.73 | <0.05 | <0.05 | 0.18 | <0.05 | <0.05 | <0.05 | <1 | 37.9 | | | | | | | | | | | |
| 11-0.45 | 0.45 | 0.45 | | 1/10/2019 | | | | 0.22 | <0.05 | <0.05 | 14 | <0.05 | <0.1 | <0.05 | 0.15 | <0.05 | 0.37 | 14 | <0.05 | 0.05 | <0.05 | <0.05 | <0.05 | 0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 14.52 | | | | | | | | | | | |
| 12-0.0 | 0 | 0.1 | | 1/10/2019 | | | | 0.15 | <0.05 | 0.81 | 4.31 | <0.05 | <0.1 | <0.05 | 0.15 | 0.21 | 0.51 | 3.5 | <0.05 | 0.28 | <0.05 | <0.05 | <0.05 | 0.08 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 5.18 | | | | | | | | | | | |
| 12-0.25 | 0.25 | 0.25 | | 1/10/2019 | | | | <0.05 | <0.05 | 0.11 | 0.47 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.36 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.47 | | | | | | | | | | | |
| 13P-0.0 (HA07) | 0 | 0.1 | | 1/10/2019 | | | | 0.13 | <0.05 | <0.05 | 7.5 | <0.05 | <0.1 | <0.05 | 0.11 | 0.08 | 0.32 | 7.5 | <0.05 | 0.17 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 7.99 | | | | | | | | | | | |
| 13P-0.2 (HA07) | 0.2 | 0.2 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 10 | <0.05 | <0.1 | <0.05 | <0.05 | 0.05 | 0.05 | 10 | <0.05 | 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 10.21 | | | | | | | | | | | |
| 14-0.0 | 0 | 0.1 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 0.07 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.07 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.07 | | | | | | | | | | | |
| 14-0.45 | 0.45 | 0.45 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | | |
| 14P-0.0 (HA10) | 0 | 0.1 | | 1/10/2019 | | | | 0.12 | <0.05 | 1.1 | 61.1 | <0.05 | 0.1 | <0.05 | <0.05 | <0.05 | 0.12 | 60 | <0.05 | 0.58 | <0.05 | <0.05 | <0.05 | 0.62 | <0.05 | <0.05 | 0.09 | <0.05 | <0.05 | <0.05 | <1 | 62.61 | | | | | | | | | | | |
| QC07 (DUP 14P-0.0 ) | 0 | 0.1 | | 1/10/2019 | | | | 0.24 | <0.05 | 1.9 | 75.9 | <0.05 | 0.3 | <0.05 | 0.05 | <0.05 | 0.29 | 74 | <0.05 | 1.2 | <0.05 | <0.05 | <0.05 | 1.2 | <0.05 | 0.06 | 0.22 | <0.05 | <0.05 | <0.05 | <1 | 79.17 | | | | | | | | | | | |
| QC08 (TRIP 14P-0.0 ) | 0 | 0.1 | | 1/10/2019 | | | | <0.05 | <0.05 | 2.32 | 109 | <0.05 | 0.37 | <0.05 | <0.05 | <0.2 | <0.05 | 107 | <0.05 | 1.4 | <0.05 | <0.05 | <0.05 | 1.47 | <0.05 | 0.16 | 0.22 | <0.05 | <0.2 | - | 112.94 | | | | | | | | | | | |
| 14P-0.42 (HA10) | 0.42 | 0.42 | | 1/10/2019 | | | | <0.05 | <0.05 | 0.06 | 3.86 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 3.8 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 3.86 | | | | | | | | | | | |
| QC09 (DUP 14P-0.42) | 0 | 0.1 | | 1/10/2019 | | | | <0.05 | <0.05 | 0.06 | 5.06 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 5 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 5.06 | | | | | | | | | | | |
| QC10 (TRIP 14P-0.42) | 0 | 0.1 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 3.08 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 | 3.08 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | 3.08 | | | | | | | | | | | |
| 15-0.0 | 0 | 0.1 | | 1/10/2019 | | | | <0.05 | <0.05 | 0.09 | 8.29 | <0.05 | 7.4 | <0.05 | <0.05 | <0.05 | <0.05 | 8.2 | 0.13 | 0.09 | 0.26 | <0.05 | <0.05 | 0.09 | <0.05 | 0.19 | 0.38 | <0.05 | <0.05 | <0.05 | <1 | 16.83 | | | | | | | | | | | |
| 16-0.0 | 0 | 0.1 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.11 | <0.05 | <0.05 | <0.05 | <1 | 1.41 | | | | | | | | | | | |
| 16-0.45 | 0.45 | 0.45 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | | |
| 17-0.0 | 0 | 0.1 | | 1/10/2019 | | | | 0.18 | <0.05 | <0.05 | 0.62 | <0.05 | <0.1 | <0.05 | <0.05 | 0.18 | 0.36 | 0.62 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.98 | | | | | | | | | | | |
| 17-0.25 | 0.25 | 0.25 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | | |
| 18-0.0 | 0 | 0.1 | | 1/10/2019 | | | | 2.2 | <0.05 | <0.05 | 0.61 | <0.05 | <0.1 | <0.05 | 0.35 | 3.8 | 6.35 | 0.61 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 6.96 | | | | | | | | | | | |
| 18-0.2 | 0.2 | 0.2 | | 1/10/2019 | | | | 0.11 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | 0.07 | 0.18 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.18 | | | | | | | | | | | |

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Anthropogenic Materials | Sampled_Date | Asbestos | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Asbestos (ID) | ACM (w/w) | Asbestos Fines (w/w) | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endrin aldehyde | Endrin ketone | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Total OCP | Azinophos methyl | Bolstar (Sulprofos) | Chlorfenvinphos | Chlorpyrifos | Chlorpyrifos-methyl | Coumaphos | Demeton-O | Demeton-S | Diazinon | Dichlorvos | Dimethoate |
| Units | - | - | | - | - | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | | mg/kg | | | mg/kg | | mg/kg | mg/kg | |
| EQL | - | - | | - | - | | - | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 1 | 0.1 | | | | | | | | | | | |
| HIL-D Commercial/Industrial | | | | | - | 0.05% | 0.001% | | | | 45 | | 530 | | | | 3600 | | | | 2000 | | | 100 | | 50 | | 80 | 2500 | 160 | | | | | | | | | | | | |
| 32-0.0 | 0 | 0.1 | | 1/10/2019 | | | | 1.4 | <0.05 | <0.05 | 0.3 | <0.05 | 0.1 | <0.05 | 2.1 | 23 | 26.5 | 0.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 26.9 | | | | | | | | | | | |
| 34-0.0 | 0 | 0.1 | | 1/10/2019 | | | | 1 | <0.05 | 0.49 | 17.49 | <0.05 | <0.1 | <0.05 | 0.15 | 0.51 | 1.66 | 17 | <0.05 | 0.22 | <0.05 | <0.05 | <0.05 | 0.18 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 19.55 | | | | | | | | | | | |
| 36-0.0 | 0 | 0.1 | | 1/10/2019 | | | | 0.07 | <0.05 | <0.05 | 20 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.07 | 20 | <0.05 | 0.12 | <0.05 | <0.05 | <0.05 | 0.11 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 20.3 | | | | | | | | | | | |
| BH01_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.16 | | | | | | | | | | | |
| BH02_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH03_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | 0.39 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | 0.06 | 0.31 | 0.76 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.76 | | | | | | | | | | | |
| BH04_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH05_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH06_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH06_0.3 | 0.3 | 0.3 | Ash, slag fragments | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH06_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH07_0.1 | 0.1 | 0.1 | | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH07_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH08_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH08_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH12_0.1 | 0.1 | 0.1 | | 3/09/2021 | ND | | | 0.47 | <0.05 | <0.05 | 0.21 | <0.05 | 0.2 | <0.05 | 0.34 | 18 | 18.81 | 0.21 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 19.22 | | | | | | | | | | | |
| BH13_0.1 | 0.1 | 0.1 | | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | 0.1 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.1 | | | | | | | | | | | |
| BH14_0.1 | 0.1 | 0.1 | | 3/09/2021 | ND | | | <0.05 | <0.05 | 0.15 | 9.15 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 9 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 9.15 | | | | | | | | | | | |
| BH14_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | 0.91 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.91 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.91 | | | | | | | | | | | |
| BH14_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | 0.24 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.24 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.24 | | | | | | | | | | | |
| BH15_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | 0.05 | 0.05 | <0.05 | <0.05 | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.1 | | | | | | | | | | | |
| BH15_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH15_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH16_0.1 | 0.1 | 0.1 | | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH16_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH16_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH17_0.1 | 0.1 | 0.1 | | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH17_0.3 | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| **QC09_210903 (DUP BH17_0.3)** | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| QC10_210903 (TRIP BH17_0.3) | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | | <0.1 | | | | | | | | | | | |
| BH17_0.5 | 0.5 | 0.5 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH18_0.1 | 0.1 | 0.1 | | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH18_0.3 | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH18_0.5 | 0.5 | 0.5 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH19_0.1 | 0.1 | 0.1 | | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH19_0.3 | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| **QC01_210903 (DUP BH19_0.3)** | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| QC02_210903 (TRIP BH19_0.3) | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | | <0.1 | | | | | | | | | | | |
| BH19_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH20_0.1 | 0.1 | 0.1 | | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH20_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH20_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH21_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | <0.05 | <0.05 | 98 | 103.2 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 5.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 103.2 | | | | | | | | | | | |

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Anthropogenic Materials | Sampled_Date | Asbestos | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Asbestos (ID) | ACM (w/w) | Asbestos Fines (w/w) | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endrin aldehyde | Endrin ketone | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Total OCP | Azinophos methyl | Bolstar (Sulprofos) | Chlorfenvinphos | Chlorpyrifos | Chlorpyrifos-methyl | Coumaphos | Demeton-O | Demeton-S | Diazinon | Dichlorvos | Dimethoate |
| Units | - | - | | - | - | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | | mg/kg | | | mg/kg | | mg/kg | mg/kg | |
| EQL | - | - | | - | - | | - | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.1 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 1 | 0.1 | | | | | | | | | | | |
| HIL-D Commercial/Industrial | | | | | - | 0.05% | 0.001% | | | | 45 | | 530 | | | | 3600 | | | | 2000 | | | 100 | | 50 | | 80 | 2500 | 160 | | | | | | | | | | | | |
| BH21_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | 0.07 | <0.05 | 0.98 | 1.41 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.07 | 0.43 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 1.48 | | | | | | | | | | | |
| BH21_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | <0.05 | <0.05 | 0.12 | 0.12 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.12 | | | | | | | | | | | |
| SLAG-1 | SLAG-1 | SLAG-1 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SLAG-2 | SLAG-2 | SLAG-2 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH01_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH03_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH05_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | 1.6 | <0.05 | <0.05 | 0.13 | <0.05 | <0.1 | <0.05 | 0.28 | 0.33 | 2.21 | 0.13 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 2.34 | | | | | | | | | | | |
| BH06_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH07_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH08_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH09_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH10_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH11_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | |
| BH21_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | <0.05 | <0.05 | 0.38 | 0.73 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.35 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.73 | | | | | | | | | | | |

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Anthropogenic Materials | Sampled_Date | Organophosphate Pesticides | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Disulfoton | EPN | Ethion | Ethoprop | Ethyl parathion | Fenitrothion | Fensulfothion | Fenthion | Malathion | Merphos | Methyl parathion | Mevinphos (Phosdrin) | Monocrotophos | Naled (Dibrom) | Omethoate | Phorate | Pirimiphos-methyl | Pyrazophos | Ronnel | Terbufos | Tetrachlorvinphos | Trichloronate | Tokuthion |
| | | | | | | | | | | | | | | | | | | | | | Pyrazo | Pyrazophos | | | | | |
| Units | - | - | | - | 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 |
| EQL | - | - | | - | | | | | | | | | | | | | | | | | | | | | | | |
| HIL-D Commercial/Industrial | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SS01 | 0 | 0.1 | ACM | 16/07/2013 | <0.2 | | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 | | <0.5 | | <0.2 | | | <0.2 | | | <0.2 | <0.2 |
| SS02 | 0 | 0.1 | ACM | 16/07/2013 | <0.2 | | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 | | <0.5 | | <0.2 | | | <0.2 | | | <0.2 | <0.2 |
| SS03 | 0 | 0.1 | | 16/07/2013 | <0.2 | | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 | | <0.5 | | <0.2 | | | <0.2 | | | <0.2 | <0.2 |
| SS04 | 0 | 0.1 | | 16/07/2013 | <0.2 | | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 | | <0.5 | | <0.2 | | | <0.2 | | | <0.2 | <0.2 |
| SA01/A01 | 0 | 0.1 | ACM | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| SA02/A02 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| SA03/A03 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| SA04/A04 | 0 | 0.1 | Slag, Brick | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| SA05/A05 | 0 | 0.1 | Slag | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0 | 0.1 | Slag | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0.3 | 0.4 | Slag | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| SA07/A07 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| SA08/A08 | 0 | 0.1 | Slag, Concrete, Wood | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| SA09/A09 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| SA10/A10 | 0 | 0.1 | Slag | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| SA11/A11 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| SA13/A13 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| Main Hall (under building) | 0 | 0 | ACM | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| Accomodation Building (under building) | 0 | 0 | ACM | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| Unsealed External Areas | 0 | 0.01 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| A01, A04, A10 | 0.15 | 0.15 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| A06, A10 | 0.15 | 0.15 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| HA01 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| HA02 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| HA03 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| HA04 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| HA05 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| QC01 (DUP HA05) | 0 | 0.1 | | 26/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| QC01A (TRIP HA05) | 0 | 0.1 | | 26/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| HA06/SA11 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| HA07/SA12 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| HA08/SA13 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| HA09 | 0 | 0.2 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| HA10 | 0 | 0.2 | Slag, Coal | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| HA11 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | |
| 1-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| 1-0.3 | 0.3 | 0.3 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| 2-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| QC01 (DUP 2-0.0) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| QC02 (TRIP 2-0.0) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| 2-0.3 | 0.3 | 0.3 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| QC03 (DUP 2-0.3) | 0.3 | 0.3 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| QC04 (TRIP 2-0.3) | 0.3 | 0.3 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |

| SAMPLE ID | Polyaromatic Hydrocarbons (PAH) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(b+j)fluoranthene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene |
| Units | 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 |
| EQL | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| HIL-D Commercial/Industrial | 40 | 40 | 40 | | | | | | | | | | | | | | |
| SS01 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| SS02 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| SS03 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| SS04 | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| SA01/A01 | | | | | | | | | | | | | | | | | |
| SA02/A02 | | | | | | | | | | | | | | | | | |
| SA03/A03 | | | | | | | | | | | | | | | | | |
| SA04/A04 | | | | | | | | | | | | | | | | | |
| SA05/A05 | | | | | | | | | | | | | | | | | |
| SA06/A06 | | | | | | | | | | | | | | | | | |
| SA06/A06 | | | | | | | | | | | | | | | | | |
| SA07/A07 | | | | | | | | | | | | | | | | | |
| SA08/A08 | | | | | | | | | | | | | | | | | |
| SA09/A09 | | | | | | | | | | | | | | | | | |
| SA10/A10 | | | | | | | | | | | | | | | | | |
| SA11/A11 | | | | | | | | | | | | | | | | | |
| SA13/A13 | | | | | | | | | | | | | | | | | |
| Main Hall (under building) | | | | | | | | | | | | | | | | | |
| Accomodation Building (under building) | | | | | | | | | | | | | | | | | |
| Unsealed External Areas | | | | | | | | | | | | | | | | | |
| A01, A04, A10 | | | | | | | | | | | | | | | | | |
| A06, A10 | | | | | | | | | | | | | | | | | |
| HA01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA02 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA03 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA04 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA05 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QC01 (DUP HA05) | | | | | | | | | | | | | | | | | |
| QC01A (TRIP HA05) | | | | | | | | | | | | | | | | | |
| HA06/SA11 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA07/SA12 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA08/SA13 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA09 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA11 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-0.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-0.3 | | | | | | | | | | | | | | | | | |
| 2-0.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QC01 (DUP 2-0.0) | | | | | | | | | | | | | | | | | |
| QC02 (TRIP 2-0.0) | | | | | | | | | | | | | | | | | |
| 2-0.3 | | | | | | | | | | | | | | | | | |
| QC03 (DUP 2-0.3) | | | | | | | | | | | | | | | | | |
| QC04 (TRIP 2-0.3) | | | | | | | | | | | | | | | | | |

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Anthropogenic Materials | Sampled_Date | Organophosphate Pesticides | | | | | | | | | | | | | | | | | | | | | | | Polyaromatic Hydrocarbons (PAH) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Disulfoton | EPN | Ethion | Ethoprop | Ethyl parathion | Fenitrothion | Fensulfothion | Fenthion | Malathion | Merphos | Methyl parathion | Mevinphos (Phosdrin) | Monocrotophos | Naled (Dibrom) | Omethoate | Phorate | Pirimiphos-methyl | Pyrazophos | Ronnel | Terbufos | Tetrachlorvinphos | Trichloronate | Tokuthion | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(b+j)fluoranthene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene |
| Units | - | - | | - | mg/kg | | mg/kg | mg/kg | | mg/kg | mg/kg | mg/kg | | mg/kg | mg/kg | mg/kg | | mg/kg | | mg/kg | | Pyrazo Pyrazophos | mg/kg | | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| EQL | - | - | | - | | | | | | | | | | | | | | | | | | | | | | | | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| HIL-D Commercial/Industrial | | | | | | | | | | | | | | | | | | | | | | | | | | | | 40 | 40 | 40 | | | | | | | | | | | | | | | |
| 3-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3-0.35 | 0.35 | 0.35 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4-0.35 | 0.35 | 0.35 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5-0.35 | 0.35 | 0.35 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6-0.45 | 0.45 | 0.45 | Slag | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 6P-0.0 (HA02) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6P-0.3 (HA02) | 0.3 | 0.3 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7-0.45 | 0.45 | 0.45 | Slag | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 7P-0.0 (HA03) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7P-0.25 (HA03) | 0.25 | 0.25 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8-0.0 | 0 | 0 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8-0.42 | 0.42 | 0.42 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9-0.42 | 0.42 | 0.42 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9P-0.0 (HA09) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9P-0.45 (HA09) | 0.45 | 0.45 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10-0.45 | 0.45 | 0.45 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11-0.45 | 0.45 | 0.45 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 12-0.25 | 0.25 | 0.25 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13P-0.0 (HA07) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 13P-0.2 (HA07) | 0.2 | 0.2 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 14-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 14-0.45 | 0.45 | 0.45 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14P-0.0 (HA10) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QC07 (DUP 14P-0.0 ) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC08 (TRIP 14P-0.0 ) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14P-0.42 (HA10) | 0.42 | 0.42 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC09 (DUP 14P-0.42) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC10 (TRIP 14P-0.42) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 16-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 16-0.45 | 0.45 | 0.45 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 17-0.25 | 0.25 | 0.25 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18-0.2 | 0.2 | 0.2 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Anthropogenic Materials | Sampled_Date | Organophosphate Pesticides | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Disulfoton | EPN | Ethion | Ethoprop | Ethyl parathion | Fenitrothion | Fensulfothion | Fenthion | Malathion | Merphos | Methyl parathion | Mevinphos (Phosdrin) | Monocrotophos | Naled (Dibrom) | Omethoate | Phorate | Pirimiphos-methyl | Pyrazophos | Ronnel | Terbufos | Tetrachlorvinphos | Trichloronate | Tokuthion |
| | | | | | | | | | | | | | | | | | | | | | Pyrazo | Pyrazophos | | | | | |
| Units | - | - | | - | 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 |
| EQL | - | - | | - | | | | | | | | | | | | | | | | | | | | | | | |
| HIL-D Commercial/Industrial | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| 34-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| 36-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | |
| BH01_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH02_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH03_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH04_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH05_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH06_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH06_0.3 | 0.3 | 0.3 | Ash, slag fragments | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH06_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH07_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH07_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH08_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH08_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH12_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH13_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH14_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH14_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH14_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH15_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH15_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH15_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH16_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH16_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH16_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH17_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH17_0.3 | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| **QC09_210903 (DUP BH17_0.3)** | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| QC10_210903 (TRIP BH17_0.3) | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH17_0.5 | 0.5 | 0.5 | Ash, slag | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH18_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH18_0.3 | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH18_0.5 | 0.5 | 0.5 | Ash, slag | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH19_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH19_0.3 | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| **QC01_210903 (DUP BH19_0.3)** | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| QC02_210903 (TRIP BH19_0.3) | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH19_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH20_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH20_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH20_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH21_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |

| SAMPLE ID | Polyaromatic Hydrocarbons (PAH) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(b+j)fluoranthene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene |
| Units | 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 |
| EQL | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| HIL-D Commercial/Industrial | 40 | 40 | 40 | | | | | | | | | | | | | | |
| 32-0.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 34-0.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 36-0.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH01_0.1 | | | | | | | | | | | | | | | | | |
| BH02_0.1 | | | | | | | | | | | | | | | | | |
| BH03_0.1 | | | | | | | | | | | | | | | | | |
| BH04_0.1 | | | | | | | | | | | | | | | | | |
| BH05_0.1 | | | | | | | | | | | | | | | | | |
| BH06_0.1 | | | | | | | | | | | | | | | | | |
| BH06_0.3 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| BH06_0.5 | | | | | | | | | | | | | | | | | |
| BH07_0.1 | | | | | | | | | | | | | | | | | |
| BH07_0.3 | | | | | | | | | | | | | | | | | |
| BH08_0.1 | | | | | | | | | | | | | | | | | |
| BH08_0.3 | | | | | | | | | | | | | | | | | |
| BH12_0.1 | | | | | | | | | | | | | | | | | |
| BH13_0.1 | | | | | | | | | | | | | | | | | |
| BH14_0.1 | | | | | | | | | | | | | | | | | |
| BH14_0.3 | | | | | | | | | | | | | | | | | |
| BH14_0.5 | | | | | | | | | | | | | | | | | |
| BH15_0.1 | | | | | | | | | | | | | | | | | |
| BH15_0.3 | | | | | | | | | | | | | | | | | |
| BH15_0.5 | | | | | | | | | | | | | | | | | |
| BH16_0.1 | | | | | | | | | | | | | | | | | |
| BH16_0.3 | | | | | | | | | | | | | | | | | |
| BH16_0.5 | | | | | | | | | | | | | | | | | |
| BH17_0.1 | | | | | | | | | | | | | | | | | |
| BH17_0.3 | | | | | | | | | | | | | | | | | |
| **QC09_210903 (DUP BH17_0.3)** | | | | | | | | | | | | | | | | | |
| QC10_210903 (TRIP BH17_0.3) | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| BH17_0.5 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| BH18_0.1 | | | | | | | | | | | | | | | | | |
| BH18_0.3 | | | | | | | | | | | | | | | | | |
| BH18_0.5 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| BH19_0.1 | | | | | | | | | | | | | | | | | |
| BH19_0.3 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| **QC01_210903 (DUP BH19_0.3)** | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| QC02_210903 (TRIP BH19_0.3) | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| BH19_0.5 | | | | | | | | | | | | | | | | | |
| BH20_0.1 | | | | | | | | | | | | | | | | | |
| BH20_0.3 | | | | | | | | | | | | | | | | | |
| BH20_0.5 | | | | | | | | | | | | | | | | | |
| BH21_0.1 | | | | | | | | | | | | | | | | | |

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Anthropogenic Materials | Sampled_Date | Organophosphate Pesticides | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Disulfoton | EPN | Ethion | Ethoprop | Ethyl parathion | Fenitrothion | Fensulfothion | Fenthion | Malathion | Merphos | Methyl parathion | Mevinphos (Phosdrin) | Monocrotophos | Naled (Dibrom) | Omethoate | Phorate | Pirimiphos-methyl | Pyrazophos | Ronnel | Terbufos | Tetrachlorvinphos | Trichloronate | Tokuthion |
| | | | | | | | | | | | | | | | | | | | | | Pyrazo | Pyrazophos | | | | | |
| Units | - | - | | - | 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 |
| EQL | - | - | | - | | | | | | | | | | | | | | | | | | | | | | | |
| HIL-D Commercial/Industrial | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH21_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH21_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| SLAG-1 | SLAG-1 | SLAG-1 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| SLAG-2 | SLAG-2 | SLAG-2 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH01_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH03_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH05_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH06_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH07_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH08_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH09_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH10_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH11_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |
| BH21_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | |

| SAMPLE ID | Polyaromatic Hydrocarbons (PAH) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(b+j)fluoranthene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene |
| Units | 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 |
| EQL | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| HIL-D Commercial/Industrial | 40 | 40 | 40 | | | | | | | | | | | | | | |
| BH21_0.3 | | | | | | | | | | | | | | | | | |
| BH21_0.5 | | | | | | | | | | | | | | | | | |
| SLAG-1 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| SLAG-2 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| BH01_CONCRETE | | | | | | | | | | | | | | | | | |
| BH03_CONCRETE | | | | | | | | | | | | | | | | | |
| BH05_CONCRETE | | | | | | | | | | | | | | | | | |
| BH06_CONCRETE | | | | | | | | | | | | | | | | | |
| BH07_CONCRETE | | | | | | | | | | | | | | | | | |
| BH08_CONCRETE | | | | | | | | | | | | | | | | | |
| BH09_CONCRETE | | | | | | | | | | | | | | | | | |
| BH10_CONCRETE | | | | | | | | | | | | | | | | | |
| BH11_CONCRETE | | | | | | | | | | | | | | | | | |
| BH21_CONCRETE | | | | | | | | | | | | | | | | | |

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Anthropogenic Materials | Sampled_Date | | | | Metals | | | | | | | | TRH | | | | BTEX | | | | | | | Other | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | PAHs (Sum of total) | Phenanthrene | Pyrene | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc | C6-C10 | C10-C16 | C16-C34 | C34-C40 | Benzene | Toluene | Ethyl benzene | Xylene (m & p) | Xylene (o) | Xylenes | Total BTEX | CEC | pH | | |
| Units | - | - | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | | | | |
| EQL | - | - | | - | 0.5 | 0.5 | 0.5 | 2 | 0.4 | 5 | 5 | 5 | 0.1 | 5 | 5 | | | | | | | | | | | | | | | |
| HIL-D Commercial/Industrial | | | | | 4000 | | | 3,000 | 900 | 3,600 | 240,000 | 1,500 | 730 | 6,000 | 400,000 | | | | | | | | | | | | | | | |
| SS01 | 0 | 0.1 | ACM | 16/07/2013 | <0.5 | <0.5 | <0.5 | 32 | 0.7 | 54 | 21 | 39 | <0.1 | 35 | 760 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | | | | | |
| SS02 | 0 | 0.1 | ACM | 16/07/2013 | <0.5 | <0.5 | <0.5 | 10 | 1.4 | 12 | 27 | 100 | <0.1 | 8.4 | 2000 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | | | | | |
| SS03 | 0 | 0.1 | | 16/07/2013 | <0.5 | <0.5 | <0.5 | 16 | 0.4 | 42 | 20 | 75 | <0.1 | 18 | 190 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | | | | | |
| SS04 | 0 | 0.1 | | 16/07/2013 | <0.5 | <0.5 | <0.5 | 10 | 0.6 | 22 | 33 | 72 | <0.1 | 11 | 250 | <20 | <50 | 260 | <100 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | | | | | |
| SA01/A01 | 0 | 0.1 | ACM | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA02/A02 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA03/A03 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA04/A04 | 0 | 0.1 | Slag, Brick | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA05/A05 | 0 | 0.1 | Slag | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0 | 0.1 | Slag | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0.3 | 0.4 | Slag | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA07/A07 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA08/A08 | 0 | 0.1 | Slag, Concrete, Wood | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA09/A09 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA10/A10 | 0 | 0.1 | Slag | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA11/A11 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA13/A13 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Main Hall (under building) | 0 | 0 | ACM | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accomodation Building (under building) | 0 | 0 | ACM | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unsealed External Areas | 0 | 0.01 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A01, A04, A10 | 0.15 | 0.15 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A06, A10 | 0.15 | 0.15 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA01 | 0 | 0.1 | | 25/09/2013 | - | - | - | 9.3 | < 0.4 | 39 | 8.1 | 7.3 | < 0.1 | 20 | 64 | | | | | | | | | | | | | | | |
| HA02 | 0 | 0.1 | | 25/09/2013 | - | - | - | 14 | < 0.4 | 44 | 6.4 | 15 | < 0.1 | 24 | 44 | | | | | | | | | | | | | | | |
| HA03 | 0 | 0.1 | | 25/09/2013 | - | - | - | 20 | < 0.4 | 69 | 12 | 27 | < 0.1 | 25 | 92 | | | | | | | | | | | | | | | |
| HA04 | 0 | 0.1 | | 25/09/2013 | - | - | - | 14 | < 0.4 | 54 | 11 | 14 | < 0.1 | 16 | 26 | | | | | | | | | | | | | | | |
| HA05 | 0 | 0.1 | | 25/09/2013 | - | - | - | 17 | < 0.4 | 66 | 9.2 | 10 | < 0.1 | 19 | 45 | | | | | | | | | | | | | | | |
| QC01 (DUP HA05) | 0 | 0.1 | | 26/09/2013 | | | | 21 | < 0.4 | 73 | 10 | 16 | < 0.1 | 20 | 54 | | | | | | | | | | | | | | | |
| QC01A (TRIP HA05) | 0 | 0.1 | | 26/09/2013 | | | | 11 | < 0.4 | 90 | 12 | 20 | < 0.1 | 27 | 74 | | | | | | | | | | | | | | | |
| HA06/SA11 | 0 | 0.1 | | 25/09/2013 | - | - | - | 22 | < 0.4 | 88 | 9.3 | 13 | < 0.1 | 19 | 41 | | | | | | | | | | | | | | | |
| HA07/SA12 | 0 | 0.1 | | 25/09/2013 | - | - | - | 15 | < 0.4 | 43 | 13 | 63 | < 0.1 | 15 | 140 | | | | | | | | | | | | 30 | 5.8 | | |
| HA08/SA13 | 0 | 0.1 | | 25/09/2013 | - | - | - | 10 | < 0.4 | 39 | 14 | 50 | < 0.1 | 11 | 72 | | | | | | | | | | | | | | | |
| HA09 | 0 | 0.2 | | 25/09/2013 | - | - | - | 10 | < 0.4 | 25 | 24 | 120 | 0.1 | 8.8 | 380 | | | | | | | | | | | | | | | |
| HA10 | 0 | 0.2 | Slag, Coal | 25/09/2013 | - | - | - | 19 | < 0.4 | 22 | 19 | 120 | < 0.1 | 8.7 | 330 | | | | | | | | | | | | | | | |
| HA11 | 0 | 0.1 | | 25/09/2013 | - | - | - | 23 | < 0.4 | 50 | 15 | 140 | < 0.1 | 13 | 450 | | | | | | | | | | | | 25 | 6.3 | | |
| 1-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 1-0.3 | 0.3 | 0.3 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| QC01 (DUP 2-0.0) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC02 (TRIP 2-0.0) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-0.3 | 0.3 | 0.3 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC03 (DUP 2-0.3) | 0.3 | 0.3 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC04 (TRIP 2-0.3) | 0.3 | 0.3 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | |

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Anthropogenic Materials | Sampled_Date | | | | Metals | | | | | | | | TRH | | | | BTEX | | | | | | | Other | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | PAHs (Sum of total) | Phenanthrene | Pyrene | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc | G6-C10 | C10-C16 | C16-C34 | C34-C40 | Benzene | Toluene | Ethyl benzene | Xylene (m & p) | Xylene (o) | Xylenes | Total BTEX | CEC | pH | | |
| Units | - | - | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | | | | |
| EQL | - | - | | - | 0.5 | 0.5 | 0.5 | 2 | 0.4 | 5 | 5 | 5 | 0.1 | 5 | 5 | | | | | | | | | | | | | | | |
| HIL-D Commercial/Industrial | | | | | 4000 | | | 3,000 | 900 | 3,600 | 240,000 | 1,500 | 730 | 6,000 | 400,000 | | | | | | | | | | | | | | | |
| 3-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 3-0.35 | 0.35 | 0.35 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 4-0.35 | 0.35 | 0.35 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 5-0.35 | 0.35 | 0.35 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 6-0.45 | 0.45 | 0.45 | Slag | 1/10/2019 | <0.5 | <0.5 | <0.5 | 2.1 | <0.4 | <5 | 11 | 32 | <0.1 | 5.8 | 72 | | | | | | | | | | | | | | | |
| 6P-0.0 (HA02) | 0 | 0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 6P-0.3 (HA02) | 0.3 | 0.3 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 7-0.45 | 0.45 | 0.45 | Slag | 1/10/2019 | <0.5 | <0.5 | <0.5 | 2.6 | <0.4 | <5 | 12 | 19 | <0.1 | 5.8 | 51 | | | | | | | | | | | | | | | |
| 7P-0.0 (HA03) | 0 | 0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 7P-0.25 (HA03) | 0.25 | 0.25 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8-0.0 | 0 | 0 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 8-0.42 | 0.42 | 0.42 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 9-0.42 | 0.42 | 0.42 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9P-0.0 (HA09) | 0 | 0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 9P-0.45 (HA09) | 0.45 | 0.45 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 10-0.45 | 0.45 | 0.45 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 11-0.45 | 0.45 | 0.45 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 12-0.25 | 0.25 | 0.25 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13P-0.0 (HA07) | 0 | 0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 13P-0.2 (HA07) | 0.2 | 0.2 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 14-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 14-0.45 | 0.45 | 0.45 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14P-0.0 (HA10) | 0 | 0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| QC07 (DUP 14P-0.0 ) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC08 (TRIP 14P-0.0 ) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14P-0.42 (HA10) | 0.42 | 0.42 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC09 (DUP 14P-0.42) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC10 (TRIP 14P-0.42) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 16-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 16-0.45 | 0.45 | 0.45 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 17-0.25 | 0.25 | 0.25 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 18-0.2 | 0.2 | 0.2 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Anthropogenic Materials | Sampled_Date | | | | Metals | | | | | | | | TRH | | | | BTEX | | | | | | | Other | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | PAHs (Sum of total) | Phenanthrene | Pyrene | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc | C6-C10 | C10-C16 | C16-C34 | C34-C40 | Benzene | Toluene | Ethyl benzene | Xylene (m & p) | Xylene (o) | Xylenes | Total BTEX | CEC | pH | | |
| Units | - | - | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | | | | |
| EQL | - | - | | - | 0.5 | 0.5 | 0.5 | 2 | 0.4 | 5 | 5 | 5 | 0.1 | 5 | 5 | | | | | | | | | | | | | | | |
| HIL-D Commercial/Industrial | | | | | 4000 | | | 3,000 | 900 | 3,600 | 240,000 | 1,500 | 730 | 6,000 | 400,000 | | | | | | | | | | | | | | | |
| 32-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 34-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| 36-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |
| BH01_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | <2 | <0.4 | 45 | 6.1 | 5.6 | <0.1 | 22 | 22 | | | | | | | | | | | | | | | |
| BH02_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | <2 | <0.4 | 37 | <5 | <5 | <0.1 | 18 | 16 | | | | | | | | | | | | | | | |
| BH03_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | 6.5 | <0.4 | 70 | 6.6 | 40 | <0.1 | 22 | 29 | | | | | | | | | | | | | | | |
| BH04_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | 3.4 | <0.4 | 49 | <5 | <5 | <0.1 | 9.2 | 16 | | | | | | | | | | | | | | | |
| BH05_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | 12 | <0.4 | 75 | 7.1 | 5.5 | <0.1 | 14 | 19 | | | | | | | | | | | | | | | |
| BH06_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | 4.6 | <0.4 | 5.6 | 6.4 | 6.6 | <0.1 | <5 | 19 | | | | | | | | | | | | | | | |
| BH06_0.3 | 0.3 | 0.3 | Ash, slag fragments | 3/09/2021 | <0.5 | <0.5 | <0.5 | 5.7 | <0.4 | 13 | 5.9 | 11 | <0.1 | <5 | 24 | | | | | | | | | | | | | | | |
| BH06_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | 8.8 | <0.4 | 150 | 21 | <5 | <0.1 | 45 | 27 | | | | | | | | | | | | | | | |
| BH07_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | 7 | <0.4 | 5.6 | 7.4 | 6.6 | <0.1 | <5 | 19 | | | | | | | | | | | | | | | |
| BH07_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | 8.7 | <0.4 | 170 | 10 | 6.7 | <0.1 | 30 | 32 | | | | | | | | | | | | | | | |
| BH08_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | 4.6 | <0.4 | 100 | 6.7 | <5 | <0.1 | 15 | 14 | | | | | | | | | | | | | | | |
| BH08_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | 3.7 | <0.4 | 110 | 11 | <5 | <0.1 | 26 | 20 | | | | | | | | | | | | | | | |
| BH12_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | 6.4 | 0.9 | 79 | 21 | 54 | <0.1 | 66 | 160 | | | | | | | | | | | | | | | |
| BH13_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | 10 | 0.5 | 73 | 30 | 110 | <0.1 | 25 | 250 | | | | | | | | | | | | | | | |
| BH14_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | 7.7 | <0.4 | 16 | 13 | 120 | <0.1 | 6.9 | 210 | | | | | | | | | | | | | | | |
| BH14_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | 6.1 | <0.4 | 6.7 | 7.8 | 33 | <0.1 | <5 | 48 | | | | | | | | | | | | | | | |
| BH14_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | 2.1 | <0.4 | 59 | 6.7 | 6.7 | <0.1 | 17 | 20 | | | | | | | | | | | | | | | |
| BH15_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | 7.3 | <0.4 | 32 | 25 | 160 | <0.1 | 13 | 250 | | | | | | | | | | | | | | | |
| BH15_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | 6.7 | <0.4 | 67 | 8.6 | 9.8 | <0.1 | 14 | 26 | | | | | | | | | | | | | | | |
| BH15_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | 6.8 | <0.4 | 66 | 11 | <5 | <0.1 | 15 | 18 | | | | | | | | | | | | | | | |
| BH16_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | 19 | <0.4 | 30 | 20 | 160 | <0.1 | 9.5 | 320 | | | | | | | | | | | | | | | |
| BH16_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | 11 | <0.4 | 79 | 12 | 47 | <0.1 | 21 | 53 | | | | | | | | | | | | | | | |
| BH16_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | 12 | <0.4 | 150 | 20 | 9.7 | <0.1 | 45 | 43 | | | | | | | | | | | | | | | |
| BH17_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | 4.1 | <0.4 | 45 | 20 | 65 | <0.1 | 21 | 75 | | | | | | | | | | | | | | | |
| BH17_0.3 | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | 3.1 | <0.4 | 8.9 | 23 | 75 | <0.1 | 5.1 | 130 | | | | | | | | | | | | | | | |
| **QC09_210903 (DUP BH17_0.3)** | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | 4 | <0.4 | 8.9 | 15 | 78 | <0.1 | <5 | 120 | | | | | | | | | | | | | | | |
| QC10_210903 (TRIP BH17_0.3) | 0.3 | 0.3 | Ash, slag | 3/09/2021 | <0.5 | <0.5 | <0.5 | <5 | <1 | 6 | 74 | 87 | <0.1 | 9 | 131 | | | | | | | | | | | | | | | |
| BH17_0.5 | 0.5 | 0.5 | Ash, slag | 3/09/2021 | <0.5 | <0.5 | <0.5 | <2 | <0.4 | <5 | 16 | 8 | <0.1 | <5 | 14 | | | | | | | | | | | | | | | |
| BH18_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | 5 | <0.4 | 51 | 18 | 37 | <0.1 | 25 | 79 | | | | | | | | | | | | | | | |
| BH18_0.3 | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | <2 | <0.4 | 24 | 22 | 29 | <0.1 | 15 | 39 | | | | | | | | | | | | | | | |
| BH18_0.5 | 0.5 | 0.5 | Ash, slag | 3/09/2021 | <0.5 | <0.5 | <0.5 | 23 | <0.4 | 39 | 14 | 27 | <0.1 | 14 | 31 | | | | | | | | | | | | | | | |
| BH19_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | 5.5 | <0.4 | 21 | 19 | 76 | <0.1 | 9.4 | 97 | | | | | | | | | | | | | | | |
| BH19_0.3 | 0.3 | 0.3 | Ash, slag | 3/09/2021 | <0.5 | <0.5 | <0.5 | 3.5 | <0.4 | 53 | 25 | 110 | <0.1 | 20 | 100 | | | | | | | | | | | | | | | |
| **QC01_210903 (DUP BH19_0.3)** | 0.3 | 0.3 | Ash, slag | 3/09/2021 | <0.5 | <0.5 | <0.5 | 2.6 | <0.4 | 39 | 15 | 65 | <0.1 | 9.7 | 62 | | | | | | | | | | | | | | | |
| QC02_210903 (TRIP BH19_0.3) | 0.3 | 0.3 | Ash, slag | 3/09/2021 | <0.5 | <0.5 | <0.5 | <5 | <1 | 16 | 14 | 86 | <0.1 | 8 | 64 | | | | | | | | | | | | | | | |
| BH19_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | 2.2 | <0.4 | 73 | 7.6 | 11 | <0.1 | 14 | 21 | | | | | | | | | | | | | | | |
| BH20_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | 3.3 | <0.4 | 48 | 32 | 68 | <0.1 | 9.9 | 88 | | | | | | | | | | | | | | | |
| BH20_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | 3.4 | <0.4 | 72 | 20 | 20 | <0.1 | 22 | 39 | | | | | | | | | | | | | | | |
| BH20_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | 3.2 | <0.4 | 100 | 18 | <5 | <0.1 | 41 | 27 | | | | | | | | | | | | | | | |
| BH21_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | <2 | <0.4 | 7.8 | <5 | 8.5 | <0.1 | <5 | 31 | | | | | | | | | | | | | | | |

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Anthropogenic Materials | Sampled_Date | | | | Metals | | | | | | | | TRH | | | | BTEX | | | | | | | Other | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | PAHs (Sum of total) | Phenanthrene | Pyrene | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury | Nickel | Zinc | C6-C10 | C10-C16 | C16-C34 | C34-C40 | Benzene | Toluene | Ethyl benzene | Xylene (m & p) | Xylene (o) | Xylenes | Total BTEX | CEC | pH | | |
| Units | - | - | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | | | | |
| EQL | - | - | | - | 0.5 | 0.5 | 0.5 | 2 | 0.4 | 5 | 5 | 5 | 0.1 | 5 | 5 | | | | | | | | | | | | | | | |
| HIL-D Commercial/Industrial | | | | | 4000 | | | 3,000 | 900 | 3,600 | 240,000 | 1,500 | 730 | 6,000 | 400,000 | | | | | | | | | | | | | | | |
| BH21_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | 12 | <0.4 | 170 | 30 | 120 | <0.1 | 61 | 160 | | | | | | | | | | | | | | | |
| BH21_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | 11 | <0.4 | 180 | 28 | <5 | <0.1 | 84 | 34 | | | | | | | | | | | | | | | |
| SLAG-1 | SLAG-1 | SLAG-1 | | 3/09/2021 | <0.5 | <0.5 | <0.5 | <2 | <0.4 | <5 | <5 | 10 | <0.1 | <5 | 19 | | | | | | | | | | | | | | | |
| SLAG-2 | SLAG-2 | SLAG-2 | | 3/09/2021 | <0.5 | <0.5 | <0.5 | <2 | <0.4 | <5 | <5 | <5 | <0.1 | <5 | <5 | | | | | | | | | | | | | | | |
| BH01_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH03_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH05_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH06_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH07_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH08_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH09_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH10_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH11_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH21_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | |

## DVA Greenslopes Soil Data - TCLP

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Sampled_Date | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | | Metals | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 4.4'-DDD | 4.4'-DDE | 4.4'-DDT | a-HCH | Aldrin | Aldrin + Dieldrin | b-HCH | Chlordane - Total | DDT + DDE + DDD | d-HCH | Dieldrin | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | Endrin aldehyde | Endrin ketone | g-HCH (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Vic EPA IWRG 621 OCP (Total)* | Vic EPA IWRG 621 Other OCP (Total)* | Chromium | Lead | Zinc |
| Units | - | - | - | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l | mg/l |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | 2 | | 0.01 | | | 0.06 | 0.03 | | 0.01 | | | | 0.01 | | | 2 | 0.03 | | | 1 | 0.05 | | | 5 | 5 | 500 |
| BH06_0.5 | 0.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | < 0.01 | | |
| BH07_0.3 | 0.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | < 0.01 | | |
| BH08_0.3 | 0.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | < 0.01 | | |
| BH13_0.1 | 0.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.11 | 0.9 |
| BH14_0.1 | 0.1 | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 | <0.001 | <0.005 | <0.001 | <0.001 | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | 0.1 | 1.1 |
| BH14_0.3 | 0.3 | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| BH15_0.1 | 0.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.07 | 0.66 |
| BH16_0.1 | 0.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.12 | 0.84 |
| BH16_0.5 | 0.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | < 0.01 | | |
| BH19_0.3 | 0.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.03 | 0.25 |
| BH21_0.1 | 0.1 | | | <0.001 | <0.001 | <0.001 | <0.001 | 0.002 | 0.006 | <0.001 | <0.005 | <0.001 | <0.001 | 0.004 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | 0.006 | <0.005 | | | |
| BH21_0.3 | 0.3 | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | < 0.01 | < 0.01 | 0.06 |
| BH21_0.5 | 0.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | < 0.01 | | |
| BH21_CONCRETE | CONCRETE | | | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| 6P-0.0 (HA02) | 0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| 7P-0.0 (HA03) | 0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| 8-0.0 | 0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.002 | <0.001 | <0.005 | <0.001 | <0.001 | 0.002 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| 9-0.0 | 0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.01 | <0.001 | <0.005 | <0.001 | <0.001 | 0.01 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | 0.01 | <0.005 | | | |
| 9P-0.0 (HA09) | 0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 | <0.001 | <0.005 | <0.001 | <0.001 | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| 10-0.0 | 0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.004 | <0.001 | <0.005 | <0.001 | <0.001 | 0.004 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| 11-0.0 | 0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.02 | <0.001 | <0.005 | <0.001 | <0.001 | 0.02 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | 0.02 | <0.005 | | | |
| 13P-0.0 (HA07) | 0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| 14P-0.0 (HA10) | 0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.003 | <0.001 | <0.005 | <0.001 | <0.001 | 0.003 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| 15-0.0 | 0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.002 | <0.001 | <0.005 | <0.001 | <0.001 | 0.002 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |
| 34-0.0 | 0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.012 | <0.001 | <0.005 | <0.001 | <0.001 | 0.012 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | 0.012 | <0.005 | | | |
| 36-0.0 | 0 | 0 | 1/10/2019 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.004 | <0.001 | <0.005 | <0.001 | <0.001 | 0.004 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.005 | <0.005 | <0.005 | | | |

**DVA Greenslopes Soil Data Lined Landfill Acceptance Criteria**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Anthropogenic Materials | Sampled_Date | Asbestos | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | Org | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Asbestos (ID) | ACM (w/w) | Asbestos Fines (w/w) | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endrin aldehyde | Endrin ketone | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Total OCP | Azinophos methyl | Bolstar (Sulprofos) | Chlorfenvinphos | Chlorpyrifos | Chlorpyrifos-methyl | Coumaphos | Demeton-O | Demeton-S | Diazinon | Dichlorvos | Dimethoate | Disulfoton | EPN | Ethion | Ethoprop | Ethyl parathion |
| Units | - | - | | - | - | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | 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 |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | | | | | | | | | |
| QC01A (TRIP HA05) | 0 | 0.1 | | 26/09/2013 | | | | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.3 | <0.1 | <0.1 | | <0.1 | | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | | <0.1 | | | | | | | | | | | | | | | | |
| 1-0.3 | 0.3 | 0.3 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | | | | | | | |
| QC03 (DUP 2-0.3) | 0.3 | 0.3 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | | | | | | | |
| 3-0.35 | 0.35 | 0.35 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | | | | | | | |
| 4-0.35 | 0.35 | 0.35 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | | | | | | | |
| 5-0.35 | 0.35 | 0.35 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | | | | | | | |
| 14-0.45 | 0.45 | 0.45 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | | | | | | | |
| 16-0.45 | 0.45 | 0.45 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | | | | | | | |
| 17-0.25 | 0.25 | 0.25 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | <0.1 | | | | | | | | | | | | | | | | |
| BH08_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | | | | |
| BH15_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | | | | |
| BH15_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | | | | |
| BH17_0.1 | 0.1 | 0.1 | | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH17_0.3 | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | | | | |
| QC09_210903 (DUP BH17_0.3) | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | | | | |
| QC10_210903 (TRIP BH17_0.3) | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | | <0.1 | | | | | | | | | | | | | | | | |
| BH17_0.5 | 0.5 | 0.5 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | | | | |
| BH18_0.1 | 0.1 | 0.1 | | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH18_0.3 | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | | | | |
| BH18_0.5 | 0.5 | 0.5 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | | | | |
| BH19_0.1 | 0.1 | 0.1 | | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | | | | |
| BH19_0.3 | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | | | | |
| QC01_210903 (DUP BH19_0.3) | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | | | | |
| HA02 | 0 | 0.1 | | 25/09/2013 | | | | 0.23 | - | < 0.05 | <0.1 | < 0.05 | 51 | < 0.05 | 0.09 | 0.73 | 1.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.08 | 0.23 | < 0.05 | < 0.05 | < 1 | 52.36 | | | | | | | | | | | | | | | | |
| HA03 | 0 | 0.1 | | 25/09/2013 | | | | 0.57 | - | < 0.05 | <0.11 | < 0.05 | 140 | < 0.05 | 0.18 | 1.6 | 2.35 | 0.06 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.14 | 0.51 | < 0.05 | < 0.05 | < 1 | 143.06 | | | | | | | | | | | | | | | | |
| QC02_210903 (TRIP BH19_0.3) | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | | <0.1 | | | | | | | | | | | | | | | | |
| BH19_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | | | | |
| BH20_0.1 | 0.1 | 0.1 | | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH20_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | | | | |
| BH20_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | | | | |
| BH09_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | | | | |
| BH10_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | | | | |
| HA09 | 0 | 0.2 | | 25/09/2013 | | | | 0.07 | - | 0.06 | 55.06 | < 0.05 | 0.3 | < 0.05 | < 0.05 | 0.22 | <0.34 | 55 | < 0.05 | 0.58 | < 0.05 | < 0.05 | < 0.05 | 0.93 | < 0.05 | < 0.05 | 0.06 | < 0.05 | < 0.05 | < 1 | 57.22 | | | | | | | | | | | | | | | | |
| HA10 | 0 | 0.2 | Slag, Coal | 25/09/2013 | | | | < 0.5 | - | 86 | 506 | < 0.05 | 5.4 | < 0.05 | < 0.05 | < 0.05 | <0.55 | 420 | < 0.05 | 8.5 | < 0.05 | < 0.05 | < 0.05 | 6.5 | < 0.05 | 0.87 | 0.11 | < 0.05 | < 0.05 | < 1 | 527.38 | | | | | | | | | | | | | | | | |
| BH11_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | | | | |
| HA11 | 0 | 0.1 | | 25/09/2013 | | | | 0.13 | - | < 0.05 | <0.44 | < 0.05 | 42 | < 0.05 | 0.06 | 0.16 | 0.35 | 0.39 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.2 | 1 | < 0.05 | < 0.05 | < 1 | 43.94 | | | | | | | | | | | | | | | | |
| HA01 | 0 | 0.1 | | 25/09/2013 | | | | 0.27 | - | 0.07 | 0.21 | < 0.05 | 31 | < 0.05 | 0.08 | 1.1 | 1.45 | 0.14 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.13 | < 0.05 | < 0.05 | < 0.05 | < 1 | 32.79 | | | | | | | | | | | | | | | | |
| HA07/SA12 | 0 | 0.1 | | 25/09/2013 | | | | 0.05 | - | 0.26 | 28.26 | < 0.05 | 0.3 | < 0.05 | < 0.05 | 0.26 | <0.36 | 28 | < 0.05 | 0.96 | < 0.05 | < 0.05 | < 0.05 | 0.7 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 30.53 | | | | | | | | | | | | | | | | |
| 10-0.0 | 0 | 0.1 | | 1/10/2019 | | | | 0.11 | <0.05 | 0.1 | 28.1 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.11 | 28 | <0.05 | 0.13 | <0.05 | <0.05 | <0.05 | 0.21 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 28.55 | | | | | | | | | | | | | | | | |
| 32-0.0 | 0 | 0.1 | | 1/10/2019 | | | | 1.4 | <0.05 | <0.05 | 0.3 | <0.05 | 0.1 | <0.05 | 2.1 | 23 | 26.5 | 0.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 26.9 | | | | | | | | | | | | | | | | |
| 8-0.0 | 0 | 0 | | 1/10/2019 | | | | 0.1 | <0.05 | 0.56 | 23.56 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.1 | 23 | <0.05 | 0.12 | <0.05 | <0.05 | <0.05 | 0.23 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 24.01 | | | | | | | | | | | | | | | | |
| 7-0.0 | 0 | 0.1 | | 1/10/2019 | | | | 0.26 | <0.05 | <0.05 | <0.05 | <0.05 | 16 | <0.05 | 0.08 | <0.05 | 0.34 | <0.05 | 0.24 | <0.05 | <0.05 | <0.05 | <0.05 | 0.12 | <0.05 | 1 | 3.4 | <0.05 | <0.05 | <1 | 21.1 | | | | | | | | | | | | | | | | |
| SS02 | 0 | 0.1 | ACM | 16/07/2013 | Chrysotile | | 0.022% (*) | <0.05 | <0.05 | <0.05 | <0.25 | <0.05 | 20 | <0.05 | <0.05 | 0.12 | <0.22 | 0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.26 | <0.05 | <0.05 | <0.1 | 20.58 | <0.2 | <0.2 | | <0.2 | | | <0.2 | | <0.2 | <0.2 | | <0.2 | | <0.2 | <0.2 | |
| 36-0.0 | 0 | 0.1 | | 1/10/2019 | | | | 0.07 | <0.05 | <0.05 | 20 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.07 | 20 | <0.05 | 0.12 | <0.05 | <0.05 | <0.05 | 0.11 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 20.3 | | | | | | | | | | | | | | | | |
| BH12_0.1 | 0.1 | 0.1 | | 3/09/2021 | ND | | | 0.47 | <0.05 | <0.05 | 0.21 | <0.05 | 0.2 | <0.05 | 0.34 | 18 | 18.81 | 0.21 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 19.22 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |

**DVA Greenslopes Soil Data Lined Landfill Acceptance Criteria**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Anthropogenic Materials | Sampled_Date | Asbestos: Asbestos (ID) | Asbestos: ACM (w/w) | Asbestos: Asbestos Fines (w/w) |
|---|---|---|---|---|---|---|---|
| Units | - | - | | - | - | | - |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | |
| 9P-0.0 (HA09) | 0 | 0.1 | | 1/10/2019 | | | |
| 15-0.0 | 0 | 0.1 | | 1/10/2019 | | | |
| 11-0.45 | 0.45 | 0.45 | | 1/10/2019 | | | |
| 13P-0.2 (HA07) | 0.2 | 0.2 | | 1/10/2019 | | | |
| 10-0.45 | 0.45 | 0.45 | | 1/10/2019 | | | |
| SS04 | 0 | 0.1 | | 16/07/2013 | ND | | ND |
| BH14_0.1 | 0.1 | 0.1 | | 3/09/2021 | ND | | |
| 5-0.0 | 0 | 0.1 | | 1/10/2019 | | | |
| 13P-0.0 (HA07) | 0 | 0.1 | | 1/10/2019 | | | |
| SS01 | 0 | 0.1 | ACM | 16/07/2013 | Chrysotile | | 0.007% (*) |
| 6-0.0 | 0 | 0.1 | | 1/10/2019 | | | |
| 18-0.0 | 0 | 0.1 | | 1/10/2019 | | | |
| QC02 (TRIP 2-0.0) | 0 | 0.1 | | 1/10/2019 | | | |
| HA06/SA11 | 0 | 0.1 | | 25/09/2013 | ND | | |
| 9-0.0 | 0 | 0.1 | | 1/10/2019 | | | |
| 2-0.0 | 0 | 0.1 | | 1/10/2019 | | | |
| HA04 | 0 | 0.1 | | 25/09/2013 | | | |
| 12-0.0 | 0 | 0.1 | | 1/10/2019 | | | |
| QC09 (DUP 14P-0.42) | 0 | 0.1 | | 1/10/2019 | | | |
| 6P-0.0 (HA02) | 0 | 0.1 | | 1/10/2019 | | | |
| 11-0.0 | 0 | 0.1 | | 1/10/2019 | | | |
| 4-0.0 | 0 | 0.1 | | 1/10/2019 | | | |
| 14P-0.42 (HA10) | 0.42 | 0.42 | | 1/10/2019 | | | |
| QC10 (TRIP 14P-0.42) | 0 | 0.1 | | 1/10/2019 | | | |
| 3-0.0 | 0 | 0.1 | | 1/10/2019 | | | |
| 7P-0.0 (HA03) | 0 | 0.1 | | 1/10/2019 | | | |
| QC01 (DUP 2-0.0) | 0 | 0.1 | | 1/10/2019 | | | |
| SS03 | 0 | 0.1 | | 16/07/2013 | ND | | ND |
| 14P-0.0 (HA10) | 0 | 0.1 | | 1/10/2019 | | | |
| QC07 (DUP 14P-0.0 ) | 0 | 0.1 | | 1/10/2019 | | | |
| QC08 (TRIP 14P-0.0 ) | 0 | 0.1 | | 1/10/2019 | | | |
| 1-0.0 | 0 | 0.1 | | 1/10/2019 | | | |
| BH21_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | |
| 16-0.0 | 0 | 0.1 | | 1/10/2019 | | | |
| 8-0.42 | 0.42 | 0.42 | | 1/10/2019 | | | |
| 17-0.0 | 0 | 0.1 | | 1/10/2019 | | | |
| BH14_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | |
| 6-0.45 | 0.45 | 0.45 | Slag | 1/10/2019 | | | |
| BH21_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | |
| 7-0.45 | 0.45 | 0.45 | Slag | 1/10/2019 | | | |
| 12-0.25 | 0.25 | 0.25 | | 1/10/2019 | | | |
| 7P-0.25 (HA03) | 0.25 | 0.25 | | 1/10/2019 | | | |
| 34-0.0 | 0 | 0.1 | | 1/10/2019 | | | |
| 9-0.42 | 0.42 | 0.42 | | 1/10/2019 | | | |

| SAMPLE ID | Organochlorine Pesticides: 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endrin aldehyde |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | | |
| 9P-0.0 (HA09) | 0.1 | <0.05 | <0.05 | 18 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.1 | 18 | <0.05 |
| 15-0.0 | <0.05 | <0.05 | 0.09 | 8.29 | <0.05 | 7.4 | <0.05 | <0.05 | <0.05 | <0.05 | 8.2 | 0.13 |
| 11-0.45 | 0.22 | <0.05 | <0.05 | 14 | <0.05 | <0.1 | <0.05 | 0.15 | <0.05 | 0.37 | 14 | <0.05 |
| 13P-0.2 (HA07) | <0.05 | <0.05 | <0.05 | 10 | <0.05 | <0.1 | <0.05 | <0.05 | 0.05 | 0.05 | 10 | <0.05 |
| 10-0.45 | 0.14 | <0.05 | 0.21 | 9.51 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.14 | 9.3 | <0.05 |
| SS04 | <0.05 | <0.05 | <0.05 | 1.15 | <0.05 | 8.2 | <0.05 | <0.05 | <0.05 | <0.15 | 1.1 | <0.05 |
| BH14_0.1 | <0.05 | <0.05 | 0.15 | 9.15 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 9 | <0.05 |
| 5-0.0 | 1.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | 1.5 | 5.4 | 8.2 | <0.05 | <0.05 |
| 13P-0.0 (HA07) | 0.13 | <0.05 | <0.05 | 7.5 | <0.05 | <0.1 | <0.05 | 0.11 | 0.08 | 0.32 | 7.5 | <0.05 |
| SS01 | 1.3 | <0.05 | <0.05 | <0.12 | <0.05 | 0.9 | <0.05 | 1.7 | 3.7 | 6.7 | 0.07 | <0.05 |
| 6-0.0 | 0.17 | <0.05 | <0.05 | 0.08 | <0.05 | 5.5 | <0.05 | 0.06 | <0.05 | 0.23 | 0.08 | 0.07 |
| 18-0.0 | 2.2 | <0.05 | <0.05 | 0.61 | <0.05 | <0.1 | <0.05 | 0.35 | 3.8 | 6.35 | 0.61 | <0.05 |
| QC02 (TRIP 2-0.0) | 0.14 | <0.05 | <0.05 | <0.05 | <0.05 | 5.84 | <0.05 | <0.05 | 0.9 | 1.04 | <0.05 | <0.05 |
| HA06/SA11 | 0.49 | - | < 0.05 | <0.87 | < 0.05 | < 0.1 | < 0.05 | 0.27 | 4.2 | 4.96 | 0.82 | < 0.05 |
| 9-0.0 | 0.2 | <0.05 | 0.08 | 60.08 | <0.05 | 0.2 | <0.05 | <0.05 | <0.05 | 0.2 | 60 | <0.05 |
| 2-0.0 | 0.09 | <0.05 | <0.05 | 0.06 | <0.05 | 5.2 | <0.05 | <0.05 | 0.33 | 0.42 | 0.06 | <0.05 |
| HA04 | < 0.05 | - | < 0.05 | <0.1 | < 0.05 | 4.7 | < 0.05 | < 0.05 | 0.41 | <0.51 | < 0.05 | < 0.05 |
| 12-0.0 | 0.15 | <0.05 | 0.81 | 4.31 | <0.05 | <0.1 | <0.05 | 0.15 | 0.21 | 0.51 | 3.5 | <0.05 |
| QC09 (DUP 14P-0.42) | <0.05 | <0.05 | 0.06 | 5.06 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 5 | <0.05 |
| 6P-0.0 (HA02) | 0.19 | <0.05 | <0.05 | <0.05 | <0.05 | 4.2 | <0.05 | 0.06 | 0.33 | 0.58 | <0.05 | <0.05 |
| 11-0.0 | 0.34 | <0.05 | 0.06 | 36.06 | <0.05 | 0.1 | <0.05 | 0.18 | <0.05 | 0.52 | 36 | <0.05 |
| 4-0.0 | 0.31 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | 4.1 | 4.41 | <0.05 | <0.05 |
| 14P-0.42 (HA10) | <0.05 | <0.05 | 0.06 | 3.86 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 3.8 | <0.05 |
| QC10 (TRIP 14P-0.42) | <0.05 | <0.05 | <0.05 | 3.08 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | <0.05 | 3.08 | <0.05 |
| 3-0.0 | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.9 | <0.05 | 0.27 | 0.59 | 0.91 | <0.05 | <0.05 |
| 7P-0.0 (HA03) | 0.15 | <0.05 | <0.05 | <0.05 | <0.05 | 2.3 | <0.05 | 0.05 | 0.17 | 0.37 | <0.05 | <0.05 |
| QC01 (DUP 2-0.0) | 0.11 | <0.05 | <0.05 | <0.05 | <0.05 | 2.1 | <0.05 | 0.36 | 0.06 | 0.53 | <0.05 | 0.05 |
| SS03 | 0.09 | <0.05 | 0.11 | 1.81 | <0.05 | 0.3 | <0.05 | <0.05 | 0.13 | <0.27 | 1.7 | <0.05 |
| 14P-0.0 (HA10) | 0.12 | <0.05 | 1.1 | 61.1 | <0.05 | 0.1 | <0.05 | <0.05 | <0.05 | 0.12 | 60 | <0.05 |
| QC07 (DUP 14P-0.0 ) | 0.24 | <0.05 | 1.9 | 75.9 | <0.05 | 0.3 | <0.05 | 0.05 | <0.05 | 0.29 | 74 | <0.05 |
| QC08 (TRIP 14P-0.0 ) | <0.05 | <0.05 | 2.32 | 109 | <0.05 | 0.37 | <0.05 | <0.05 | <0.2 | <0.05 | 107 | <0.05 |
| 1-0.0 | 0.82 | <0.05 | <0.05 | <0.05 | <0.05 | 0.3 | <0.05 | 0.13 | 0.9 | 1.85 | <0.05 | <0.05 |
| BH21_0.3 | 0.07 | <0.05 | 0.98 | 1.41 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.07 | 0.43 | <0.05 |
| 16-0.0 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| 8-0.42 | <0.05 | <0.05 | <0.05 | 1.3 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 1.3 | <0.05 |
| 17-0.0 | 0.18 | <0.05 | <0.05 | 0.62 | <0.05 | <0.1 | <0.05 | <0.05 | 0.18 | 0.36 | 0.62 | <0.05 |
| BH14_0.3 | <0.05 | <0.05 | <0.05 | 0.91 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.91 | <0.05 |
| 6-0.45 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.5 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| BH21_CONCRETE | <0.05 | <0.05 | 0.38 | 0.73 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.35 | <0.05 |
| 7-0.45 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.4 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| 12-0.25 | <0.05 | <0.05 | 0.11 | 0.47 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.36 | <0.05 |
| 7P-0.25 (HA03) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.4 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| 34-0.0 | 1 | <0.05 | 0.49 | 17.49 | <0.05 | <0.1 | <0.05 | 0.15 | 0.51 | 1.66 | 17 | <0.05 |
| 9-0.42 | <0.05 | <0.05 | <0.05 | 0.36 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.36 | <0.05 |

| SAMPLE ID | Organochlorine Pesticides: Endrin ketone | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Total OCP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | | 50 |
| 9P-0.0 (HA09) | <0.05 | <0.05 | <0.05 | <0.05 | 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 18.26 |
| 15-0.0 | 0.09 | 0.26 | <0.05 | <0.05 | 0.09 | <0.05 | 0.19 | 0.38 | <0.05 | <0.05 | <1 | 16.83 |
| 11-0.45 | 0.05 | <0.05 | <0.05 | <0.05 | 0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 14.52 |
| 13P-0.2 (HA07) | 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 10.21 |
| 10-0.45 | <0.05 | <0.05 | <0.05 | <0.05 | 0.06 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 9.71 |
| SS04 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.24 | <0.05 | <0.05 | <0.1 | 9.54 |
| BH14_0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 9.15 |
| 5-0.0 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 8.2 |
| 13P-0.0 (HA07) | 0.17 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 7.99 |
| SS01 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | 7.67 |
| 6-0.0 | <0.05 | <0.05 | <0.05 | <0.05 | 0.05 | <0.05 | 0.26 | 0.89 | <0.05 | <0.05 | <1 | 7.08 |
| 18-0.0 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 6.96 |
| QC02 (TRIP 2-0.0) | <0.05 | <1.02 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.06 | <0.05 | <0.2 | - | 6.94 |
| HA06/SA11 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 5.83 |
| 9-0.0 | 0.36 | <0.05 | <0.05 | <0.05 | 0.83 | <0.05 | <0.05 | 0.06 | <0.05 | <0.05 | <1 | 61.73 |
| 2-0.0 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 5.68 |
| HA04 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | 0.07 | < 0.05 | < 0.05 | < 1 | 5.18 |
| 12-0.0 | 0.28 | <0.05 | <0.05 | <0.05 | 0.08 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 5.18 |
| QC09 (DUP 14P-0.42) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 5.06 |
| 6P-0.0 (HA02) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 4.78 |
| 11-0.0 | 0.31 | <0.05 | <0.05 | <0.05 | 0.73 | <0.05 | <0.05 | 0.18 | <0.05 | <0.05 | <1 | 37.9 |
| 4-0.0 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 4.41 |
| 14P-0.42 (HA10) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 3.86 |
| QC10 (TRIP 14P-0.42) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | 3.08 |
| 3-0.0 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 2.81 |
| 7P-0.0 (HA03) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.09 | <0.05 | <0.05 | <1 | 2.76 |
| QC01 (DUP 2-0.0) | <0.05 | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 2.73 |
| SS03 | 0.07 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | 2.4 |
| 14P-0.0 (HA10) | 0.58 | <0.05 | <0.05 | <0.05 | 0.62 | <0.05 | <0.05 | 0.09 | <0.05 | <0.05 | <1 | 62.61 |
| QC07 (DUP 14P-0.0 ) | 1.2 | <0.05 | <0.05 | <0.05 | 1.2 | <0.05 | 0.06 | 0.22 | <0.05 | <0.05 | <1 | 79.17 |
| QC08 (TRIP 14P-0.0 ) | 1.4 | <0.05 | <0.05 | <0.05 | 1.47 | <0.05 | 0.16 | 0.22 | <0.05 | <0.2 | - | 112.94 |
| 1-0.0 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 2.15 |
| BH21_0.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 1.48 |
| 16-0.0 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.11 | <0.05 | <0.05 | <1 | 1.41 |
| 8-0.42 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 1.3 |
| 17-0.0 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.98 |
| BH14_0.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.91 |
| 6-0.45 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.26 | <0.05 | <0.05 | <1 | 0.76 |
| BH21_CONCRETE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.73 |
| 7-0.45 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.18 | <0.05 | <0.05 | <1 | 0.58 |
| 12-0.25 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.47 |
| 7P-0.25 (HA03) | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.4 |
| 34-0.0 | 0.22 | <0.05 | <0.05 | <0.05 | 0.18 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 19.55 |
| 9-0.42 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.36 |

| SAMPLE ID | Org: Azinophos methyl | Bolstar (Sulprofos) | Chlorfenvinphos | Chlorpyrifos | Chlorpyrifos-methyl | Coumaphos | Demeton-O | Demeton-S | Diazinon | Dichlorvos | Dimethoate | Disulfoton | EPN | Ethion | Ethoprop | Ethyl parathion |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Units | 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 |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | | | | | | |
| 9P-0.0 (HA09) | | | | | | | | | | | | | | | | |
| 15-0.0 | | | | | | | | | | | | | | | | |
| 11-0.45 | | | | | | | | | | | | | | | | |
| 13P-0.2 (HA07) | | | | | | | | | | | | | | | | |
| 10-0.45 | | | | | | | | | | | | | | | | |
| SS04 | <0.2 | <0.2 | | <0.2 | | | <0.2 | | <0.2 | <0.2 | | <0.2 | | <0.2 | <0.2 | |
| BH14_0.1 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| 5-0.0 | | | | | | | | | | | | | | | | |
| 13P-0.0 (HA07) | | | | | | | | | | | | | | | | |
| SS01 | <0.2 | <0.2 | | <0.2 | | | <0.2 | | <0.2 | <0.2 | | <0.2 | | <0.2 | <0.2 | |
| 6-0.0 | | | | | | | | | | | | | | | | |
| 18-0.0 | | | | | | | | | | | | | | | | |
| QC02 (TRIP 2-0.0) | | | | | | | | | | | | | | | | |
| HA06/SA11 | | | | | | | | | | | | | | | | |
| 9-0.0 | | | | | | | | | | | | | | | | |
| 2-0.0 | | | | | | | | | | | | | | | | |
| HA04 | | | | | | | | | | | | | | | | |
| 12-0.0 | | | | | | | | | | | | | | | | |
| QC09 (DUP 14P-0.42) | | | | | | | | | | | | | | | | |
| 6P-0.0 (HA02) | | | | | | | | | | | | | | | | |
| 11-0.0 | | | | | | | | | | | | | | | | |
| 4-0.0 | | | | | | | | | | | | | | | | |
| 14P-0.42 (HA10) | | | | | | | | | | | | | | | | |
| QC10 (TRIP 14P-0.42) | | | | | | | | | | | | | | | | |
| 3-0.0 | | | | | | | | | | | | | | | | |
| 7P-0.0 (HA03) | | | | | | | | | | | | | | | | |
| QC01 (DUP 2-0.0) | | | | | | | | | | | | | | | | |
| SS03 | <0.2 | <0.2 | | <0.2 | | | <0.2 | | <0.2 | <0.2 | | <0.2 | | <0.2 | <0.2 | |
| 14P-0.0 (HA10) | | | | | | | | | | | | | | | | |
| QC07 (DUP 14P-0.0 ) | | | | | | | | | | | | | | | | |
| QC08 (TRIP 14P-0.0 ) | | | | | | | | | | | | | | | | |
| 1-0.0 | | | | | | | | | | | | | | | | |
| BH21_0.3 | | | | | | | | | | | | | | | | |
| 16-0.0 | | | | | | | | | | | | | | | | |
| 8-0.42 | | | | | | | | | | | | | | | | |
| 17-0.0 | | | | | | | | | | | | | | | | |
| BH14_0.3 | | | | | | | | | | | | | | | | |
| 6-0.45 | | | | | | | | | | | | | | | | |
| BH21_CONCRETE | | | | | | | | | | | | | | | | |
| 7-0.45 | | | | | | | | | | | | | | | | |
| 12-0.25 | | | | | | | | | | | | | | | | |
| 7P-0.25 (HA03) | | | | | | | | | | | | | | | | |
| 34-0.0 | | | | | | | | | | | | | | | | |
| 9-0.42 | | | | | | | | | | | | | | | | |

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Anthropogenic Materials | Sampled_Date | Asbestos | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | | | Org | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Asbestos (ID) | ACM (w/w) | Asbestos Fines (w/w) | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endrin aldehyde | Endrin ketone | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Total OCP | Azinophos methyl | Bolstar (Sulprofos) | Chlorfenvinphos | Chlorpyrifos | Chlorpyrifos-methyl | Coumaphos | Demeton-O | Demeton-S | Diazinon | Dichlorvos | Dimethoate | Disulfoton | EPN | Ethion | Ethoprop | Ethyl parathion |
| Units | - | - | | - | - | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | 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 |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | | | | | | | | | | |
| BH01_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | 0.16 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.16 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH02_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH03_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | 0.39 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | 0.06 | 0.31 | 0.76 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.76 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH04_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH05_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH06_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH06_0.3 | 0.3 | 0.3 | Ash, slag fragments | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | | | | | |
| BH06_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | | | | | |
| BH07_0.1 | 0.1 | 0.1 | | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH07_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | | | | | |
| BH08_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | | | | | |
| 6P-0.3 (HA02) | 0.3 | 0.3 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.3 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.3 | | | | | | | | | | | | | | | | | |
| BH14_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | 0.24 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.24 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.24 | | | | | | | | | | | | | | | | | |
| QC04 (TRIP 2-0.3) | 0.3 | 0.3 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.23 | <0.05 | <0.05 | <0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.2 | - | 0.23 | | | | | | | | | | | | | | | | | |
| HA08/SA13 | 0 | 0.1 | | 25/09/2013 | ND | | | < 0.05 | - | < 0.05 | <0.13 | < 0.05 | < 0.1 | < 0.05 | < 0.05 | 0.13 | <0.23 | 0.08 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 0.21 | | | | | | | | | | | | | | | | | |
| 2-0.3 | 0.3 | 0.3 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.2 | | | | | | | | | | | | | | | | | |
| 18-0.2 | 0.2 | 0.2 | | 1/10/2019 | | | | 0.11 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | 0.07 | 0.18 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.18 | | | | | | | | | | | | | | | | | |
| 9P-0.45 (HA09) | 0.45 | 0.45 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 0.13 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.13 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.13 | | | | | | | | | | | | | | | | | |
| HA05 | 0 | 0.1 | | 25/09/2013 | | | | < 0.05 | - | < 0.05 | <0.1 | < 0.05 | < 0.1 | < 0.05 | < 0.05 | 0.12 | <0.22 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 0.12 | | | | | | | | | | | | | | | | | |
| BH21_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | <0.05 | <0.05 | 0.12 | 0.12 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.12 | | | | | | | | | | | | | | | | | |
| BH16_0.1 | 0.1 | 0.1 | | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH16_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | | | | | |
| BH16_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | | | | | |
| BH13_0.1 | 0.1 | 0.1 | | 3/09/2021 | ND | | | <0.05 | <0.05 | <0.05 | 0.1 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.1 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| BH15_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | 0.05 | 0.05 | <0.05 | <0.05 | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 0.1 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| 14-0.0 | 0 | 0.1 | | 1/10/2019 | | | | <0.05 | <0.05 | <0.05 | 0.07 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 0.07 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <1 | 0.07 | | | | | | | | | | | | | | | | | |
| QC01 (DUP HA05) | 0 | 0.1 | | 26/09/2013 | | | | < 0.05 | - | < 0.05 | <0.1 | < 0.05 | < 0.1 | < 0.05 | < 0.05 | 0.06 | <0.22 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 1 | 0.06 | | | | | | | | | | | | | | | | | |
| SA01/A01 | 0 | 0.1 | ACM | 25/09/2013 | Chrysotile | | 0.0005% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA02/A02 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA03/A03 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA04/A04 | 0 | 0.1 | Slag, Brick | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA05/A05 | 0 | 0.1 | Slag | 25/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0 | 0.1 | Slag | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0.3 | 0.4 | Slag | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA07/A07 | 0 | 0.1 | | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA08/A08 | 0 | 0.1 | Slag, Concrete, Wood | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA09/A09 | 0 | 0.1 | | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA10/A10 | 0 | 0.1 | Slag | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA11/A11 | 0 | 0.1 | | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH21_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | <0.05 | <0.05 | 98 | 103.2 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | 5.2 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 103.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| SA13/A13 | 0 | 0.1 | | 25/09/2013 | ND | | ND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Main Hall (under building) | 0 | 0 | ACM | 25/09/2013 | | 0.0149% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SLAG-1 | SLAG-1 | SLAG-1 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SLAG-2 | SLAG-2 | SLAG-2 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Anthropogenic Materials | Sampled_Date | Asbestos | | | Organochlorine Pesticides | | | | | | | | | | | | | | | | | | | | | | | | Org | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Asbestos (ID) | ACM (w/w) | Asbestos Fines (w/w) | 4,4-DDE | a-BHC | Aldrin | Aldrin + Dieldrin | b-BHC | chlordane | d-BHC | DDD | DDT | DDT+DDE+DDD | Dieldrin | Endrin aldehyde | Endrin ketone | Endosulfan I | Endosulfan II | Endosulfan sulphate | Endrin | g-BHC (Lindane) | Heptachlor | Heptachlor epoxide | Hexachlorobenzene | Methoxychlor | Toxaphene | Total OCP | Azinophos methyl | Bolstar (Sulprofos) | Chlorfenvinphos | Chlorpyrifos | Chlorpyrifos-methyl | Coumaphos | Demeton-O | Demeton-S | Diazinon | Dichlorvos | Dimethoate | Disulfoton | EPN | Ethion | Ethoprop | Ethyl parathion |
| Units | - | - | | - | - | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | 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 |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | | | | | | | | | |
| BH01_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | | | | |
| BH03_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | | | | |
| BH05_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | 1.6 | <0.05 | <0.05 | 0.13 | <0.05 | <0.1 | <0.05 | 0.28 | 0.33 | 2.21 | 0.13 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | 2.34 | | | | | | | | | | | | | | | | |
| BH06_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | | | | |
| BH07_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | | | | |
| BH08_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.1 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.5 | <0.1 | | | | | | | | | | | | | | | | |
| Accomodation Building (under building) | 0 | 0 | ACM | 25/09/2013 | | 0.0303% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unsealed External Areas | 0 | 0.01 | | 25/09/2013 | | 0.0084% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A01, A04, A10 | 0.15 | 0.15 | | 25/09/2013 | | 0.0090% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A06, A10 | 0.15 | 0.15 | | 25/09/2013 | | 0.0038% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Anthropogenic Materials | Sampled_Date | anophosphate Pesticides | | | | | | | | | | | | | | | | | | | | Polyaromatic Hydrocarbons (PAH) | | | | | | | | | | | | | | | | | | | | | Metals | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Fenitrothion | Fensulfothion | Fenthion | Malathion | Merphos | Methyl parathion | Mevinphos (Phosdrin) | Monocrotophos | Naled (Dibrom) | Omethoate | Phorate | Pirimiphos-methyl | Pyrazophos | Ronnel | Terbufos | Tetrachlorvinphos | Trichloronate | Tokuthion | Total OPP | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(b+j)fluoranthene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | PAHs (Sum of total) | Phenanthrene | Pyrene | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury |
| Units | - | - | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | | | | | | | | | | | 1000 | | | | | | | | | |
| QC01A (TRIP HA05) | 0 | 0.1 | | 26/09/2013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 11 | < 0.4 | 90 | 12 | 20 | < 0.1 |
| 1-0.3 | 0.3 | 0.3 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC03 (DUP 2-0.3) | 0.3 | 0.3 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3-0.35 | 0.35 | 0.35 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4-0.35 | 0.35 | 0.35 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5-0.35 | 0.35 | 0.35 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14-0.45 | 0.45 | 0.45 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16-0.45 | 0.45 | 0.45 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17-0.25 | 0.25 | 0.25 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH08_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3.7 | <0.4 | 110 | 11 | <5 | <0.1 |
| BH15_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 6.7 | <0.4 | 67 | 8.6 | 9.8 | <0.1 |
| BH15_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 6.8 | <0.4 | 66 | 11 | <5 | <0.1 |
| BH17_0.1 | 0.1 | 0.1 | | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <LOR | | | | | | | | | | | | | | | | | | | | 4.1 | <0.4 | 45 | 20 | 65 | <0.1 |
| BH17_0.3 | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3.1 | <0.4 | 8.9 | 23 | 75 | <0.1 |
| QC09_210903 (DUP BH17_0.3) | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | <0.4 | 8.9 | 15 | 78 | <0.1 |
| QC10_210903 (TRIP BH17_0.3) | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | | | | | | | | | | | | | | | | | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | | <0.5 | <0.5 | <0.5 | <5 | <1 | 6 | 74 | 87 | <0.1 |
| BH17_0.5 | 0.5 | 0.5 | Ash, slag | 3/09/2021 | | | | | | | | | | | | | | | | | | | | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2 | <0.4 | <5 | 16 | 8 | <0.1 |
| BH18_0.1 | 0.1 | 0.1 | | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <LOR | | | | | | | | | | | | | | | | | | | | 5 | <0.4 | 51 | 18 | 37 | <0.1 |
| BH18_0.3 | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | <2 | <0.4 | 24 | 22 | 29 | <0.1 |
| BH18_0.5 | 0.5 | 0.5 | Ash, slag | 3/09/2021 | | | | | | | | | | | | | | | | | | | | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 23 | <0.4 | 39 | 14 | 27 | <0.1 |
| BH19_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 5.5 | <0.4 | 21 | 19 | 76 | <0.1 |
| BH19_0.3 | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | | | | | | | | | | | | | | | | | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 3.5 | <0.4 | 53 | 25 | 110 | <0.1 |
| QC01_210903 (DUP BH19_0.3) | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | | | | | | | | | | | | | | | | | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 2.6 | <0.4 | 39 | 15 | 65 | <0.1 |
| HA02 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 14 | < 0.4 | 44 | 6.4 | 15 | < 0.1 |
| HA03 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 20 | < 0.4 | 69 | 12 | 27 | < 0.1 |
| QC02_210903 (TRIP BH19_0.3) | 0.3 | 0.3 | Ash, slag | 3/09/2021 | | | | | | | | | | | | | | | | | | | | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | | <0.5 | <0.5 | <0.5 | <5 | <1 | 16 | 14 | 86 | <0.1 |
| BH19_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.2 | <0.4 | 73 | 7.6 | 11 | <0.1 |
| BH20_0.1 | 0.1 | 0.1 | | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <LOR | | | | | | | | | | | | | | | | | | | | 3.3 | <0.4 | 48 | 32 | 68 | <0.1 |
| BH20_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3.4 | <0.4 | 72 | 20 | 20 | <0.1 |
| BH20_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3.2 | <0.4 | 100 | 18 | <5 | <0.1 |
| BH09_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH10_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA09 | 0 | 0.2 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 10 | < 0.4 | 25 | 24 | 120 | 0.1 |
| HA10 | 0 | 0.2 | Slag, Coal | 25/09/2013 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 19 | < 0.4 | 22 | 19 | 120 | < 0.1 |
| BH11_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA11 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 23 | < 0.4 | 50 | 15 | 140 | < 0.1 |
| HA01 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9.3 | < 0.4 | 39 | 8.1 | 7.3 | < 0.1 |
| HA07/SA12 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 15 | < 0.4 | 43 | 13 | 63 | < 0.1 |
| 10-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 32-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8-0.0 | 0 | 0 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SS02 | 0 | 0.1 | ACM | 16/07/2013 | <0.2 | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 | | <0.5 | | <0.2 | | | <0.2 | | | <0.2 | <0.2 | <LOR | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 10 | 1.4 | 12 | 27 | 100 | <0.1 |
| 36-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH12_0.1 | 0.1 | 0.1 | | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <LOR | | | | | | | | | | | | | | | | | | | | 6.4 | 0.9 | 79 | 21 | 54 | <0.1 |

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Anthropogenic Materials | Sampled_Date | anophosphate Pesticides | | | | | | | | | | | | | | | | | | | Polyaromatic Hydrocarbons (PAH) | | | | | | | | | | | | | | | | | | | | | Metals | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Fenitrothion | Fensulfothion | Fenthion | Malathion | Merphos | Methyl parathion | Mevinphos (Phosdrin) | Monocrotophos | Naled (Dibrom) | Omethoate | Phorate | Pirimiphos-methyl | Pyrazophos | Ronnel | Terbufos | Tetrachlorvinphos | Trichloronate | Tokuthion | Total OPP | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(b+j)fluoranthene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | PAHs (Sum of total) | Phenanthrene | Pyrene | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury |
| Units | - | - | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | | | | | | | | | | | | | 50 | | | | | | | | | | | | | | | | | | | 1000 | | | | | | | | |
| 9P-0.0 (HA09) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 15-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11-0.45 | 0.45 | 0.45 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13P-0.2 (HA07) | 0.2 | 0.2 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10-0.45 | 0.45 | 0.45 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SS04 | 0 | 0.1 | | 16/07/2013 | <0.2 | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 | | <0.5 | | <0.2 | | | <0.2 | | | <0.2 | <0.2 | <LOR | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 10 | 0.6 | 22 | 33 | 72 | <0.1 |
| BH14_0.1 | 0.1 | 0.1 | | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <LOR | | | | | | | | | | | | | | | | | | | | | 7.7 | <0.4 | 16 | 13 | 120 | <0.1 |
| 5-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 13P-0.0 (HA07) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SS01 | 0 | 0.1 | ACM | 16/07/2013 | <0.2 | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 | | <0.5 | | <0.2 | | | <0.2 | | | <0.2 | <0.2 | <LOR | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 32 | 0.7 | 54 | 21 | 39 | <0.1 |
| 6-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QC02 (TRIP 2-0.0) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA06/SA11 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 22 | < 0.4 | 88 | 9.3 | 13 | < 0.1 |
| 9-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HA04 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 14 | < 0.4 | 54 | 11 | 14 | < 0.1 |
| 12-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QC09 (DUP 14P-0.42) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6P-0.0 (HA02) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 14P-0.42 (HA10) | 0.42 | 0.42 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC10 (TRIP 14P-0.42) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 7P-0.0 (HA03) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QC01 (DUP 2-0.0) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SS03 | 0 | 0.1 | | 16/07/2013 | <0.2 | <0.2 | <0.2 | | <0.2 | <0.2 | <0.2 | | <0.5 | | <0.2 | | | <0.2 | | | <0.2 | <0.2 | <LOR | - | - | - | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 16 | 0.4 | 42 | 20 | 75 | <0.1 |
| 14P-0.0 (HA10) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QC07 (DUP 14P-0.0 ) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QC08 (TRIP 14P-0.0 ) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH21_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 12 | <0.4 | 170 | 30 | 120 | <0.1 |
| 16-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8-0.42 | 0.42 | 0.42 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BH14_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 6.1 | <0.4 | 6.7 | 7.8 | 33 | <0.1 |
| 6-0.45 | 0.45 | 0.45 | Slag | 1/10/2019 | | | | | | | | | | | | | | | | | | | | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 2.1 | <0.4 | <5 | 11 | 32 | <0.1 |
| BH21_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7-0.45 | 0.45 | 0.45 | Slag | 1/10/2019 | | | | | | | | | | | | | | | | | | | | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 2.6 | <0.4 | <5 | 12 | 19 | <0.1 |
| 12-0.25 | 0.25 | 0.25 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7P-0.25 (HA03) | 0.25 | 0.25 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 34-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9-0.42 | 0.42 | 0.42 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Anthropogenic Materials | Sampled_Date | anophosphate Pesticides | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Fenitrothion | Fensulfothion | Fenthion | Malathion | Merphos | Methyl parathion | Mevinphos (Phosdrin) | Monocrotophos | Naled (Dibrom) | Omethoate | Phorate | Pirimphos-methyl | Pyrazophos | Ronnel | Terbufos | Tetrachlorvinphos | Trichloronate | Tokuthion | Total OPP |
| Units | - | - | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | | | | | | | | | | | | | 50 |
| BH01_0.1 | 0.1 | 0.1 | | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <LOR |
| BH02_0.1 | 0.1 | 0.1 | | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <LOR |
| BH03_0.1 | 0.1 | 0.1 | | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <LOR |
| BH04_0.1 | 0.1 | 0.1 | | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <LOR |
| BH05_0.1 | 0.1 | 0.1 | | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <LOR |
| BH06_0.1 | 0.1 | 0.1 | | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <LOR |
| BH06_0.3 | 0.3 | 0.3 | Ash, slag fragments | 3/09/2021 | | | | | | | | | | | | | | | | | | | |
| BH06_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | |
| BH07_0.1 | 0.1 | 0.1 | | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <LOR |
| BH07_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | |
| BH08_0.1 | 0.1 | 0.1 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | |
| 6P-0.3 (HA02) | 0.3 | 0.3 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | |
| BH14_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | |
| QC04 (TRIP 2-0.3) | 0.3 | 0.3 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | |
| HA08/SA13 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | |
| 2-0.3 | 0.3 | 0.3 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | |
| 18-0.2 | 0.2 | 0.2 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | |
| 9P-0.45 (HA09) | 0.45 | 0.45 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | |
| HA05 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | |
| BH21_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | |
| BH16_0.1 | 0.1 | 0.1 | | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <LOR |
| BH16_0.3 | 0.3 | 0.3 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | |
| BH16_0.5 | 0.5 | 0.5 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | |
| BH13_0.1 | 0.1 | 0.1 | | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <LOR |
| BH15_0.1 | 0.1 | 0.1 | | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <LOR |
| 14-0.0 | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | | | | | |
| QC01 (DUP HA05) | 0 | 0.1 | | 26/09/2013 | | | | | | | | | | | | | | | | | | | |
| SA01/A01 | 0 | 0.1 | ACM | 25/09/2013 | | | | | | | | | | | | | | | | | | | |
| SA02/A02 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | |
| SA03/A03 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | |
| SA04/A04 | 0 | 0.1 | Slag, Brick | 25/09/2013 | | | | | | | | | | | | | | | | | | | |
| SA05/A05 | 0 | 0.1 | Slag | 25/09/2013 | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0 | 0.1 | Slag | 25/09/2013 | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | 0.3 | 0.4 | Slag | 25/09/2013 | | | | | | | | | | | | | | | | | | | |
| SA07/A07 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | |
| SA08/A08 | 0 | 0.1 | Slag, Concrete, Wood | 25/09/2013 | | | | | | | | | | | | | | | | | | | |
| SA09/A09 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | |
| SA10/A10 | 0 | 0.1 | Slag | 25/09/2013 | | | | | | | | | | | | | | | | | | | |
| SA11/A11 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | |
| BH21_0.1 | 0.1 | 0.1 | | 3/09/2021 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <2 | <0.2 | <2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <LOR |
| SA13/A13 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | |
| Main Hall (under building) | 0 | 0 | ACM | 25/09/2013 | | | | | | | | | | | | | | | | | | | |
| SLAG-1 | SLAG-1 | SLAG-1 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | |
| SLAG-2 | SLAG-2 | SLAG-2 | | 3/09/2021 | | | | | | | | | | | | | | | | | | | |

| SAMPLE ID | Polyaromatic Hydrocarbons (PAH) | | | | | | | | | | | | | | | | | | | | | | | | Metals | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(b+j)fluoranthene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | PAHs (Sum of total) | Phenanthrene | Pyrene | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury |
| Units | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | | | | | | | | 1000 | | | | | | | | |
| BH01_0.1 | | | | | | | | | | | | | | | | | | | | | <2 | <0.4 | 45 | 6.1 | 5.6 | <0.1 |
| BH02_0.1 | | | | | | | | | | | | | | | | | | | | | <2 | <0.4 | 37 | <5 | <5 | <0.1 |
| BH03_0.1 | | | | | | | | | | | | | | | | | | | | | 6.5 | <0.4 | 70 | 6.6 | 40 | <0.1 |
| BH04_0.1 | | | | | | | | | | | | | | | | | | | | | 3.4 | <0.4 | 49 | <5 | <5 | <0.1 |
| BH05_0.1 | | | | | | | | | | | | | | | | | | | | | 12 | <0.4 | 75 | 7.1 | 5.5 | <0.1 |
| BH06_0.1 | | | | | | | | | | | | | | | | | | | | | 4.6 | <0.4 | 5.6 | 6.4 | 6.6 | <0.1 |
| BH06_0.3 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 5.7 | <0.4 | 13 | 5.9 | 11 | <0.1 |
| BH06_0.5 | | | | | | | | | | | | | | | | | | | | | 8.8 | <0.4 | 150 | 21 | <5 | <0.1 |
| BH07_0.1 | | | | | | | | | | | | | | | | | | | | | 7 | <0.4 | 5.6 | 7.4 | 6.6 | <0.1 |
| BH07_0.3 | | | | | | | | | | | | | | | | | | | | | 8.7 | <0.4 | 170 | 10 | 6.7 | <0.1 |
| BH08_0.1 | | | | | | | | | | | | | | | | | | | | | 4.6 | <0.4 | 100 | 6.7 | <5 | <0.1 |
| 6P-0.3 (HA02) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH14_0.5 | | | | | | | | | | | | | | | | | | | | | 2.1 | <0.4 | 59 | 6.7 | 6.7 | <0.1 |
| QC04 (TRIP 2-0.3) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA08/SA13 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 10 | < 0.4 | 39 | 14 | 50 | < 0.1 |
| 2-0.3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18-0.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9P-0.45 (HA09) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HA05 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 17 | < 0.4 | 66 | 9.2 | 10 | < 0.1 |
| BH21_0.5 | | | | | | | | | | | | | | | | | | | | | 11 | <0.4 | 180 | 28 | <5 | <0.1 |
| BH16_0.1 | | | | | | | | | | | | | | | | | | | | | 19 | <0.4 | 30 | 20 | 160 | <0.1 |
| BH16_0.3 | | | | | | | | | | | | | | | | | | | | | 11 | <0.4 | 79 | 12 | 47 | <0.1 |
| BH16_0.5 | | | | | | | | | | | | | | | | | | | | | 12 | <0.4 | 150 | 20 | 9.7 | <0.1 |
| BH13_0.1 | | | | | | | | | | | | | | | | | | | | | 10 | 0.5 | 73 | 30 | 110 | <0.1 |
| BH15_0.1 | | | | | | | | | | | | | | | | | | | | | 7.3 | <0.4 | 32 | 25 | 160 | <0.1 |
| 14-0.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| QC01 (DUP HA05) | | | | | | | | | | | | | | | | | | | | | 21 | < 0.4 | 73 | 10 | 16 | < 0.1 |
| SA01/A01 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA02/A02 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA03/A03 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA04/A04 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA05/A05 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA06/A06 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA07/A07 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA08/A08 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA09/A09 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA10/A10 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SA11/A11 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH21_0.1 | | | | | | | | | | | | | | | | | | | | | <2 | <0.4 | 7.8 | <5 | 8.5 | <0.1 |
| SA13/A13 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Main Hall (under building) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SLAG-1 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2 | <0.4 | <5 | <5 | 10 | <0.1 |
| SLAG-2 | 0.6 | 1.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2 | <0.4 | <5 | <5 | <5 | <0.1 |

**DVA Greenslopes Soil Data Lined Landfill Acceptance Criteria**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Anthropogenic Materials | Sampled_Date | anophosphate Pesticides | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Fenitrothion | Fensulfothion | Fenthion | Malathion | Merphos | Methyl parathion | Mevinphos (Phosdrin) | Monocrotophos | Naled (Dibrom) | Omethoate | Phorate | Pirimphos-methyl | Pyrazophos | Ronnel | Terbufos | Tetrachlorvinphos | Trichloronate | Tokuthion | Total OPP |
| Units | - | - | | - | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | | | | | | | | | | | | | 50 |
| BH01_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | |
| BH03_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | |
| BH05_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | |
| BH06_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | |
| BH07_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | |
| BH08_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | | | | | |
| Accomodation Building (under building) | 0 | 0 | ACM | 25/09/2013 | | | | | | | | | | | | | | | | | | | |
| Unsealed External Areas | 0 | 0.01 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | |
| A01, A04, A10 | 0.15 | 0.15 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | |
| A06, A10 | 0.15 | 0.15 | | 25/09/2013 | | | | | | | | | | | | | | | | | | | |

| SAMPLE ID | Polyaromatic Hydrocarbons (PAH) | | | | | | | | | | | | | | | | | | | | | | | | Metals | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Benzo(a)pyrene TEQ calc (Half) | Benzo(a)pyrene TEQ (LOR) | Benzo(a)pyrene TEQ calc (Zero) | Benzo(b+j)fluoranthene | Acenaphthene | Acenaphthylene | Anthracene | Benz(a)anthracene | Benzo(a) pyrene | Benzo(g,h,i)perylene | Benzo(k)fluoranthene | Chrysene | Dibenz(a,h)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-c,d)pyrene | Naphthalene | PAHs (Sum of total) | Phenanthrene | Pyrene | Arsenic | Cadmium | Chromium (III+VI) | Copper | Lead | Mercury |
| Units | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | | | | | | | | 1000 | | | | | | | | |
| BH01_CONCRETE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH03_CONCRETE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH05_CONCRETE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH06_CONCRETE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH07_CONCRETE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BH08_CONCRETE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accomodation Building (under building) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Unsealed External Areas | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A01, A04, A10 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A06, A10 | | | | | | | | | | | | | | | | | | | | | | | | | | |

**DVA Greenslopes Soil Data Lined Landfill Acceptance Criteria**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Anthropogenic Materials | Sampled_Date | | | TRH | | | | BTEX | | | | | | | Other | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Nickel | Zinc | C6-C10 | C10-C16 | C16-C34 | C34-C40 | Benzene | Toluene | Ethyl benzene | Xylene (m & p) | Xylene (o) | Xylenes | Total BTEX | OEC | pH |
| Units | - | - | | - | 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 | | |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | 20 | 600 | 1000 | | | 500 | 1000 | | |
| QC01A (TRIP HA05) | 0 | 0.1 | | 26/09/2013 | 27 | 74 | | | | | | | | | | | | | |
| 1-0.3 | 0.3 | 0.3 | | 1/10/2019 | | | | | | | | | | | | | | | |
| QC03 (DUP 2-0.3) | 0.3 | 0.3 | | 1/10/2019 | | | | | | | | | | | | | | | |
| 3-0.35 | 0.35 | 0.35 | | 1/10/2019 | | | | | | | | | | | | | | | |
| 4-0.35 | 0.35 | 0.35 | | 1/10/2019 | | | | | | | | | | | | | | | |
| 5-0.35 | 0.35 | 0.35 | | 1/10/2019 | | | | | | | | | | | | | | | |
| 14-0.45 | 0.45 | 0.45 | | 1/10/2019 | | | | | | | | | | | | | | | |
| 16-0.45 | 0.45 | 0.45 | | 1/10/2019 | | | | | | | | | | | | | | | |
| 17-0.25 | 0.25 | 0.25 | | 1/10/2019 | | | | | | | | | | | | | | | |
| BH08_0.3 | 0.3 | 0.3 | | 3/09/2021 | 26 | 20 | | | | | | | | | | | | | |
| BH15_0.3 | 0.3 | 0.3 | | 3/09/2021 | 14 | 26 | | | | | | | | | | | | | |
| BH15_0.5 | 0.5 | 0.5 | | 3/09/2021 | 15 | 18 | | | | | | | | | | | | | |
| BH17_0.1 | 0.1 | 0.1 | | 3/09/2021 | 21 | 75 | | | | | | | | | | | | | |
| BH17_0.3 | 0.3 | 0.3 | Ash, slag | 3/09/2021 | 5.1 | 130 | | | | | | | | | | | | | |
| QC09_210903 (DUP BH17_0.3) | 0.3 | 0.3 | Ash, slag | 3/09/2021 | <5 | 120 | | | | | | | | | | | | | |
| QC10_210903 (TRIP BH17_0.3) | 0.3 | 0.3 | Ash, slag | 3/09/2021 | 9 | 131 | | | | | | | | | | | | | |
| BH17_0.5 | 0.5 | 0.5 | Ash, slag | 3/09/2021 | <5 | 14 | | | | | | | | | | | | | |
| BH18_0.1 | 0.1 | 0.1 | | 3/09/2021 | 25 | 79 | | | | | | | | | | | | | |
| BH18_0.3 | 0.3 | 0.3 | Ash, slag | 3/09/2021 | 15 | 39 | | | | | | | | | | | | | |
| BH18_0.5 | 0.5 | 0.5 | Ash, slag | 3/09/2021 | 14 | 31 | | | | | | | | | | | | | |
| BH19_0.1 | 0.1 | 0.1 | | 3/09/2021 | 9.4 | 97 | | | | | | | | | | | | | |
| BH19_0.3 | 0.3 | 0.3 | Ash, slag | 3/09/2021 | 20 | 100 | | | | | | | | | | | | | |
| QC01_210903 (DUP BH19_0.3) | 0.3 | 0.3 | Ash, slag | 3/09/2021 | 9.7 | 62 | | | | | | | | | | | | | |
| HA02 | 0 | 0.1 | | 25/09/2013 | 24 | 44 | | | | | | | | | | | | | |
| HA03 | 0 | 0.1 | | 25/09/2013 | 25 | 92 | | | | | | | | | | | | | |
| QC02_210903 (TRIP BH19_0.3) | 0.3 | 0.3 | Ash, slag | 3/09/2021 | 8 | 64 | | | | | | | | | | | | | |
| BH19_0.5 | 0.5 | 0.5 | | 3/09/2021 | 14 | 21 | | | | | | | | | | | | | |
| BH20_0.1 | 0.1 | 0.1 | | 3/09/2021 | 9.9 | 88 | | | | | | | | | | | | | |
| BH20_0.3 | 0.3 | 0.3 | | 3/09/2021 | 22 | 39 | | | | | | | | | | | | | |
| BH20_0.5 | 0.5 | 0.5 | | 3/09/2021 | 41 | 27 | | | | | | | | | | | | | |
| BH09_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | |
| BH10_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | |
| HA09 | 0 | 0.2 | | 25/09/2013 | 8.8 | 380 | | | | | | | | | | | | | |
| HA10 | 0 | 0.2 | Slag, Coal | 25/09/2013 | 8.7 | 330 | | | | | | | | | | | | | |
| BH11_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | |
| HA11 | 0 | 0.1 | | 25/09/2013 | 13 | 450 | | | | | | | | | | | | 25 | 6.3 |
| HA01 | 0 | 0.1 | | 25/09/2013 | 20 | 64 | | | | | | | | | | | | | |
| HA07/SA12 | 0 | 0.1 | | 25/09/2013 | 15 | 140 | | | | | | | | | | | | 30 | 5.8 |
| 10-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | | | | | | | | | | | | | |
| 32-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | | | | | | | | | | | | | |
| 8-0.0 | 0 | 0 | | 1/10/2019 | - | - | | | | | | | | | | | | | |
| 7-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | | | | | | | | | | | | | |
| SS02 | 0 | 0.1 | ACM | 16/07/2013 | 8.4 | 2000 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | | | |
| 36-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | | | | | | | | | | | | | |
| BH12_0.1 | 0.1 | 0.1 | | 3/09/2021 | 66 | 160 | | | | | | | | | | | | | |

**DVA Greenslopes Soil Data Lined Landfill Acceptance Criteria**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Anthropogenic Materials | Sampled_Date | | | TRH | | | | BTEX | | | | | | | Other | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Nickel | Zinc | C6-C10 | C10-C16 | C16-C34 | C34-C40 | Benzene | Toluene | Ethyl benzene | Xylene (m & p) | Xylene (o) | Xylenes | Total BTEX | OEC | pH |
| Units | - | - | | - | 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 | | |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | 20 | 600 | 1000 | | | 500 | 1000 | | |
| 9P-0.0 (HA09) | 0 | 0.1 | | 1/10/2019 | - | - | | | | | | | | | | | | | |
| 15-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | | | | | | | | | | | | | |
| 11-0.45 | 0.45 | 0.45 | | 1/10/2019 | | | | | | | | | | | | | | | |
| 13P-0.2 (HA07) | 0.2 | 0.2 | | 1/10/2019 | - | - | | | | | | | | | | | | | |
| 10-0.45 | 0.45 | 0.45 | | 1/10/2019 | | | | | | | | | | | | | | | |
| SS04 | 0 | 0.1 | | 16/07/2013 | 11 | 250 | <20 | <50 | 260 | <100 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | | | |
| BH14_0.1 | 0.1 | 0.1 | | 3/09/2021 | 6.9 | 210 | | | | | | | | | | | | | |
| 5-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | | | | | | | | | | | | | |
| 13P-0.0 (HA07) | 0 | 0.1 | | 1/10/2019 | - | - | | | | | | | | | | | | | |
| SS01 | 0 | 0.1 | ACM | 16/07/2013 | 35 | 760 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | | | |
| 6-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | | | | | | | | | | | | | |
| 18-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | | | | | | | | | | | | | |
| QC02 (TRIP 2-0.0) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | |
| HA06/SA11 | 0 | 0.1 | | 25/09/2013 | 19 | 41 | | | | | | | | | | | | | |
| 9-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | | | | | | | | | | | | | |
| 2-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | | | | | | | | | | | | | |
| HA04 | 0 | 0.1 | | 25/09/2013 | 16 | 26 | | | | | | | | | | | | | |
| 12-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | | | | | | | | | | | | | |
| QC09 (DUP 14P-0.42) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | |
| 6P-0.0 (HA02) | 0 | 0.1 | | 1/10/2019 | - | - | | | | | | | | | | | | | |
| 11-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | | | | | | | | | | | | | |
| 4-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | | | | | | | | | | | | | |
| 14P-0.42 (HA10) | 0.42 | 0.42 | | 1/10/2019 | | | | | | | | | | | | | | | |
| QC10 (TRIP 14P-0.42) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | |
| 3-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | | | | | | | | | | | | | |
| 7P-0.0 (HA03) | 0 | 0.1 | | 1/10/2019 | - | - | | | | | | | | | | | | | |
| QC01 (DUP 2-0.0) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | |
| SS03 | 0 | 0.1 | | 16/07/2013 | 18 | 190 | <20 | <50 | <100 | <100 | <0.1 | <0.1 | <0.1 | <0.2 | <0.1 | <0.3 | | | |
| 14P-0.0 (HA10) | 0 | 0.1 | | 1/10/2019 | - | - | | | | | | | | | | | | | |
| QC07 (DUP 14P-0.0 ) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | |
| QC08 (TRIP 14P-0.0 ) | 0 | 0.1 | | 1/10/2019 | | | | | | | | | | | | | | | |
| 1-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | | | | | | | | | | | | | |
| BH21_0.3 | 0.3 | 0.3 | | 3/09/2021 | 61 | 160 | | | | | | | | | | | | | |
| 16-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | | | | | | | | | | | | | |
| 8-0.42 | 0.42 | 0.42 | | 1/10/2019 | | | | | | | | | | | | | | | |
| 17-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | | | | | | | | | | | | | |
| BH14_0.3 | 0.3 | 0.3 | | 3/09/2021 | <5 | 48 | | | | | | | | | | | | | |
| 6-0.45 | 0.45 | 0.45 | Slag | 1/10/2019 | 5.8 | 72 | | | | | | | | | | | | | |
| BH21_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | |
| 7-0.45 | 0.45 | 0.45 | Slag | 1/10/2019 | 5.8 | 51 | | | | | | | | | | | | | |
| 12-0.25 | 0.25 | 0.25 | | 1/10/2019 | | | | | | | | | | | | | | | |
| 7P-0.25 (HA03) | 0.25 | 0.25 | | 1/10/2019 | | | | | | | | | | | | | | | |
| 34-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | | | | | | | | | | | | | |
| 9-0.42 | 0.42 | 0.42 | | 1/10/2019 | | | | | | | | | | | | | | | |

**DVA Greenslopes Soil Data Lined Landfill Acceptance Criteria**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Anthropogenic Materials | Sampled_Date | | | TRH | | | | BTEX | | | | | | | Other | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Nickel | Zinc | C6-C10 | C10-C16 | C16-C34 | C34-C40 | Benzene | Toluene | Ethyl benzene | Xylene (m & p) | Xylene (o) | Xylenes | Total BTEX | GEC | pH |
| Units | - | - | | - | 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 | | |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | 20 | 600 | 1000 | | | 500 | 1000 | | |
| BH01_0.1 | 0.1 | 0.1 | | 3/09/2021 | 22 | 22 | | | | | | | | | | | | | |
| BH02_0.1 | 0.1 | 0.1 | | 3/09/2021 | 18 | 16 | | | | | | | | | | | | | |
| BH03_0.1 | 0.1 | 0.1 | | 3/09/2021 | 22 | 29 | | | | | | | | | | | | | |
| BH04_0.1 | 0.1 | 0.1 | | 3/09/2021 | 9.2 | 16 | | | | | | | | | | | | | |
| BH05_0.1 | 0.1 | 0.1 | | 3/09/2021 | 14 | 19 | | | | | | | | | | | | | |
| BH06_0.1 | 0.1 | 0.1 | | 3/09/2021 | <5 | 19 | | | | | | | | | | | | | |
| BH06_0.3 | 0.3 | 0.3 | Ash, slag fragments | 3/09/2021 | <5 | 24 | | | | | | | | | | | | | |
| BH06_0.5 | 0.5 | 0.5 | | 3/09/2021 | 45 | 27 | | | | | | | | | | | | | |
| BH07_0.1 | 0.1 | 0.1 | | 3/09/2021 | <5 | 19 | | | | | | | | | | | | | |
| BH07_0.3 | 0.3 | 0.3 | | 3/09/2021 | 30 | 32 | | | | | | | | | | | | | |
| BH08_0.1 | 0.1 | 0.1 | | 3/09/2021 | 15 | 14 | | | | | | | | | | | | | |
| 6P-0.3 (HA02) | 0.3 | 0.3 | | 1/10/2019 | | | | | | | | | | | | | | | |
| BH14_0.5 | 0.5 | 0.5 | | 3/09/2021 | 17 | 20 | | | | | | | | | | | | | |
| QC04 (TRIP 2-0.3) | 0.3 | 0.3 | | 1/10/2019 | | | | | | | | | | | | | | | |
| HA08/SA13 | 0 | 0.1 | | 25/09/2013 | 11 | 72 | | | | | | | | | | | | | |
| 2-0.3 | 0.3 | 0.3 | | 1/10/2019 | | | | | | | | | | | | | | | |
| 18-0.2 | 0.2 | 0.2 | | 1/10/2019 | - | - | | | | | | | | | | | | | |
| 9P-0.45 (HA09) | 0.45 | 0.45 | | 1/10/2019 | | | | | | | | | | | | | | | |
| HA05 | 0 | 0.1 | | 25/09/2013 | 19 | 45 | | | | | | | | | | | | | |
| BH21_0.5 | 0.5 | 0.5 | | 3/09/2021 | 84 | 34 | | | | | | | | | | | | | |
| BH16_0.1 | 0.1 | 0.1 | | 3/09/2021 | 9.5 | 320 | | | | | | | | | | | | | |
| BH16_0.3 | 0.3 | 0.3 | | 3/09/2021 | 21 | 53 | | | | | | | | | | | | | |
| BH16_0.5 | 0.5 | 0.5 | | 3/09/2021 | 45 | 43 | | | | | | | | | | | | | |
| BH13_0.1 | 0.1 | 0.1 | | 3/09/2021 | 25 | 250 | | | | | | | | | | | | | |
| BH15_0.1 | 0.1 | 0.1 | | 3/09/2021 | 13 | 250 | | | | | | | | | | | | | |
| 14-0.0 | 0 | 0.1 | | 1/10/2019 | - | - | | | | | | | | | | | | | |
| QC01 (DUP HA05) | 0 | 0.1 | | 26/09/2013 | 20 | 54 | | | | | | | | | | | | | |
| SA01/A01 | 0 | 0.1 | ACM | 25/09/2013 | | | | | | | | | | | | | | | |
| SA02/A02 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | |
| SA03/A03 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | |
| SA04/A04 | 0 | 0.1 | Slag, Brick | 25/09/2013 | | | | | | | | | | | | | | | |
| SA05/A05 | 0 | 0.1 | Slag | 25/09/2013 | | | | | | | | | | | | | | | |
| SA06/A06 | 0 | 0.1 | Slag | 25/09/2013 | | | | | | | | | | | | | | | |
| SA06/A06 | 0.3 | 0.4 | Slag | 25/09/2013 | | | | | | | | | | | | | | | |
| SA07/A07 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | |
| SA08/A08 | 0 | 0.1 | Slag, Concrete, Wood | 25/09/2013 | | | | | | | | | | | | | | | |
| SA09/A09 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | |
| SA10/A10 | 0 | 0.1 | Slag | 25/09/2013 | | | | | | | | | | | | | | | |
| SA11/A11 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | |
| BH21_0.1 | 0.1 | 0.1 | | 3/09/2021 | <5 | 31 | | | | | | | | | | | | | |
| SA13/A13 | 0 | 0.1 | | 25/09/2013 | | | | | | | | | | | | | | | |
| Main Hall (under building) | 0 | 0 | ACM | 25/09/2013 | | | | | | | | | | | | | | | |
| SLAG-1 | SLAG-1 | SLAG-1 | | 3/09/2021 | <5 | 19 | | | | | | | | | | | | | |
| SLAG-2 | SLAG-2 | SLAG-2 | | 3/09/2021 | <5 | <5 | | | | | | | | | | | | | |

**DVA Greenslopes Soil Data Lined Landfill Acceptance Criteria**

| SAMPLE ID | Sample Depth (m) | Sample Depth (m) | Anthropogenic Materials | Sampled_Date | | | TRH | | | | BTEX | | | | | | | Other | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Nickel | Zinc | C6-C10 | C10-C16 | C16-C34 | C34-C40 | Benzene | Toluene | Ethyl benzene | Xylene (m & p) | Xylene (o) | Xylenes | Total BTEX | CEC | pH |
| Units | - | - | | - | 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 | | |
| SYNTHETICALLY LINED LANDFILL DISPOSAL CRITERIA | | | | | | | | | | | 20 | 600 | 1000 | | | 500 | 1000 | | |
| BH01_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | |
| BH03_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | |
| BH05_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | |
| BH06_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | |
| BH07_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | |
| BH08_CONCRETE | CONCRETE | CONCRETE | | 3/09/2021 | | | | | | | | | | | | | | | |
| Accomodation Building (under building) | 0 | 0 | ACM | 25/09/2013 | | | | | | | | | | | | | | | |
| Unsealed External Areas | 0 | 0.01 | | 25/09/2013 | | | | | | | | | | | | | | | |
| A01, A04, A10 | 0.15 | 0.15 | | 25/09/2013 | | | | | | | | | | | | | | | |
| A06, A10 | 0.15 | 0.15 | | 25/09/2013 | | | | | | | | | | | | | | | |

# APPENDIX C: STAPYLTON WASTE ACCEPTANCE CRITERIA

| | |
|---|---|
| | b. **liquid** or semi-liquid waste that is incidental to, and commingled with, the permitted waste streams.<br>2. hot ash;<br>3. material that is smouldering or aflame;<br>4. material containing a substance which is ignitable, corrosive, reactive or **toxic material** (other than materials containing a toxic substance from domestic premises) unless this material is to be deposited into a dedicated monocell with a written approval of the **administering authority**;<br>5. all radioactive wastes, unless otherwise approved under the *Radiation Safety Act 1999* or approved contaminated soil;<br>6. an explosive;<br>7. ammunition, other than ammunition that no longer contains explosives, pyrotechnics or propellants apart from trace residues that are no longer capable of supporting combustion or an explosive reaction. |
| **W3** | **Incompatible wastes** must not be mixed in the same container or waste storage area. |
| **W4** | Deposited waste must be covered as soon as practicable to limit stormwater infiltration, prevent exposure of waste and prevent issues arising from vectors and pest species. |
| **W5** | With the exception of landfill gas waste must not be burnt. |
| **W6** | Waste and any contaminated soil disposed of at the premises to which this environmental authority relates:<br>1. must be accepted subject to effectively implementing risk assessment practices and procedures for contaminant testing that ensure that the material accepted complies with the maximum contaminant levels and the allowable leaching contaminant levels prescribed in Table 4—Maximum contaminant levels in soils and Table 5—Allowable leaching contaminant levels respectively; and<br>2. if the contaminated soil is used as coverage material, contaminant levels must not exceed the maximum concentration limits in Table 6, must not cause contaminated stormwater release and must not include any soil that is contaminated due to the concentration of monocyclic aromatic hydrocarbons, polycyclic aromatic hydrocarbons, chlorinated hydrocarbons, pesticides, or petroleum hydrocarbons.<br><br>**Table 4—Maximum contaminant levels in waste and soil** |

| Contaminant | Maximum contaminant level for **double-lined** landfills (mg/kg) |
|---|---|
| *Monocyclic aromatic hydrocarbons (MAH)* | |
| Benzene | 20 |
| Ethyl Benzene | 1,000 |
| Toluene | 600 |
| Xylene | 500 |
| Total MAH | 1,000 |

| | |
|---|---|
| *Polycyclic aromatic hydrocarbons (PAH)* | |
| Total PAH | 1,000 |
| *Phenolic contaminants - Non halogenated compounds:* | |
| Phenol | 250 |
| m-cresol | 500 |
| o-cresol | 500 |
| p-cresol | 500 |
| Total non-halogenated phenol | 500 |
| *Phenolic contaminants - Halogenated phenol* | |
| Chlorophenol | 5 |
| Pentachlorophenol | 20 |
| Trichlorophenol | 20 |
| Total halogenated phenol | 20 |
| *Chlorinated Hydrocarbons - Chlorinated aliphatic compounds:* | |
| Carbon tetrachloride | 10 |
| 1,2 Dichloroethane | 20 |
| 1,1 Dichloroethene | 1 |
| Tetrachloroethene | 20 |
| Trichloroethene | 25 |
| Total chlorinated aliphatic compounds | 50 |
| *Chlorinated aromatic compounds:* | |
| Chlorobenzene | 200 |
| Hexachlorobenzene | 1 |
| Total chlorinated aromatic compounds | 200 |
| Non-scheduled solid polychlorinated biphenyls (PCBs) | 50 |
| *Pesticides (screening)* | |
| Total organochlorine | 50 |
| Total herbicides | 50 |
| Total carbamates | 50 |
| Total organophosphorus | 50 |
| *Petroleum hydrocarbons* | |

| | |
|---|---|
| Total petroleum hydrocarbons ($C_6$-$C_9$) | 1,000 |
| Total petroleum hydrocarbons ($C_{10}$-$C_{14}$) | 10,000 |
| Total petroleum hydrocarbons ($C_{15}$-$C_{28}$) | 50,000 |
| Total petroleum hydrocarbons ($C_{29}$-$C_{36}$) | 50,000 |
| Organotins | |
| Tributyltin oxide | 10 |

**Table 5—Allowable leaching contaminant levels in waste and soil**

| Contaminant | Allowable leaching contaminant levels (**TCLP**) for **double-lined** landfills (mg/L) |
|---|---|
| *Non-specific contaminants* | |
| Biochemical oxygen demand | 20,000 |
| Total organic carbon | 10,000 |
| Petroleum hydrocarbons | 50 |
| *Metals/metalloids* | |
| Antimony | 5 |
| Arsenic | 5 |
| Barium | 100 |
| Cadmium | 0.5 |
| Chromium | 5 |
| Cobalt | 5 |
| Copper | 100 |
| Lead | 5 |
| Mercury | 0.1 |
| Molybdenum | 5 |
| Nickel | 5 |
| Selenium | 1 |
| Silver | 5 |
| Thallium | 1 |
| Tin | 3 |
| Vanadium | 5 |
| Zinc | 500 |

| | |
|---|---|
| *Inorganic anions* | |
| Bromide | 50 |
| Chloride | 6,000 |
| Cyanide (total) | 5 |
| Fluoride | 150 |
| Nitrate | 1,000 |
| Sulphate | 4,000 |
| *Monocyclic aromatic hydrocarbon (MAH)* | |
| Benzene | 1 |
| Ethyl benzene | 50 |
| Toluene | 30 |
| Xylene | 20 |
| Total MAH | 50 |
| *Polycyclic aromatic hydrocarbons (PAH)* | |
| Anthracene | 0.7 |
| Benz (a) anthracene | 0.05 |
| Benz (c) phenanthrene | 0.05 |
| Benzo (a) pyrene | 0.02 |
| Benzo (b) fluoranthene | 0.05 |
| Benzo (k) fluoranthene | 0.05 |
| Chrysene | 0.1 |
| Dibenz (a,h) anthracene | 0.02 |
| Dibenz (a,h) pyrene | 0.1 |
| Dimethylbenz (a) anthracene | 0.05 |
| Fluoranthene | 0.2 |
| Indeno (1,2,3-cd) pyrene | 0.1 |
| Naphthalene | 0.7 |
| Phenanthrene | 0.1 |
| Pyrene | 0.7 |
| Total PAH | 1 |
| *Phenolic contaminants – Non-halogenated compounds:* | |

| | |
|---|---|
| Phenol | 10 |
| m-cresol | 20 |
| o-cresol | 20 |
| p-cresol | 20 |
| *Phenolic contaminants – Halogenated phenols* | |
| Chlorophenol | 0.1 |
| Pentachlorophenol | 1 |
| Trichlorophenol | 1 |
| Chlorinated hydrocarbons - *Chlorinated aliphatic compounds* | |
| Carbon tetrachloride | 0.3 |
| 1,2 Dichloroethane | 1 |
| 1,1 Dichloroethene | 0.03 |
| Tetrachloroethene | 1 |
| Trichloroethene | 3 |
| Chlorinated hydrocarbons - *Chlorinated aromatic compounds* | |
| Chlorobenzene (total) | 10 |
| Hexachlorobenzene | 0.02 |
| *Pesticides - Organochlorine* | |
| Aldrin | 0.01 |
| Chlordane | 0.06 |
| Chlorpyrifos | 0.03 |
| Dieldrin | 0.01 |
| DDT | 0.03 |
| Endrin | 0.01 |
| Heptachlor | 0.03 |
| Lindane | 1 |
| Methoxychlor | 1 |
| Toxaphene | 0.05 |
| *Pesticides - Herbicides* | |
| 2,4-D | 1 |
| 2,4-DB | 2 |

| | |
|---|---|
| 2,4,5 -T | 0.02 |
| MCPA | 2 |
| *Pesticides - Carbamates:* | |
| Carbaryl | 0.6 |
| Carbofuran | 0.3 |
| *Pesticides - Organophosphorus* | |
| Diazinon | 0.1 |
| Methyl Parathion | 0.06 |
| Parathion | 0.3 |
| *Pesticides - Triazines:* | |
| Atrazine | 0.03 |
| Simazine | 0.03 |
| *Fluorinated organic compounds* | |
| Total fluorinated organic compounds (if leachate reused on or off-site) | 0.0003 |
| Total fluorinated organic compounds (if leachate not reused on or off-site) | 0.05 |
| *Organotins* | |
| Tributyltin oxide | 0.4 |
| For any waste or soil contaminated by radioactive material, the gross alpha and gross beta activity concentration in the Toxicity Characteristic Leaching Procedure (**TCLP**) extracts from the material are no more than 100 times the concentrations for the screening of gross alpha and gross beta activity concentrations specified in the National Health and Medical Research Council (NHMRC) Australian Drinking Water Guidelines, 2011. | |

*Allowable leaching levels to be determined using the **TCLP** procedure mentioned in United States Environmental Protection Agency (USEPA), Washington DC (2008) 'Test methods for evaluating solid waste, physical/chemical methods' Document number SW 846. 3rd Edition or more recent editions or supplement to that procedure as they become available.

### Table 6—Maximum total contaminant levels in soils used as cover material (note: this material is not suitable for final capping)

| Contaminant | Maximum total contaminant levels in soils used as cover material (mg/kg) |
|---|---|
| Metals and metalloids | |
| Arsenic (total) | 200 |
| Beryllium | 40 |
| Cadmium | 40 |
| Chromium (III) | 240,000 |

| | |
|---|---|
| Chromium (VI) | 200 |
| Copper | 2,000 |
| Lead | 600 |
| Manganese | 3,000 |
| Mercury (inorganic) | 30 |
| Methyl Mercury | 20 |
| Nickel | 600 |
| Zinc | 14,000 |
| Others | |
| PFOS (Perfluoro-octane sulfonate) | 6 |
| PFOA (Perfluoro-octanoic acid) | 16 |
| Total fluorinated organic compounds | 10 (not including PFOS & PFOA) |

## Definitions

Key terms and/or phrases used in this document are defined in this section. Where a term is not defined, the definition in the *Environmental Protection Act 1994*, its regulations or environmental protection policies must be used. If a word remains undefined it has its ordinary meaning.

**Activity** means the environmentally relevant activities, whether resource activities or prescribed activities, to which the environmental authority relates.

**Administering authority** means the Department of Environment and Heritage Protection or its successor or predecessors.

**Appropriately qualified person(s)** means a person or persons who has professional qualifications, training, skills or experience relevant to the nominated subject matter and can give authoritative assessment, advice and analysis to performance relative to the subject matter using the relevant protocols, standards, methods or literature.

**Background** means noise, measured in the absence of the noise under investigation, as $L_{A90,T}$ being the A-weighted sound pressure level exceeded for 90 per cent of the time period of not less than 15 minutes, using Fast response.

**Blasting** means the use of explosive materials to fracture:

(a) rock, coal and other minerals for later recovery; or

(b) structural components or other items to facilitate removal from a site or reuse.

**Boundary** means within one metre of the cadastral boundary of the site.

**Clay lined** means a landfill lined with compacted clay at least 600 mm thick achieving a maximum permeability of 1 X 10-9 metres per second or alternate such as an engineered geosynthetic agreed in writing as equivalent in performance by the **administering authority**.

**Commercial waste** as defined in the *Environmental Protection Regulation 2008*.

# APPENDIX D: SOIL DISPOSAL PERMITS

# Notice

**Environmental Protection Act 1994**

## Notice of decision to grant a soil disposal permit with conditions

*This information notice is issued by the administering authority in accordance with section 424(5) of the Environmental Protection Act 1994 (EP Act) to advise you of the decision to grant your application for a soil disposal permit, but to impose conditions on the permit, and to inform you of the reasons for the decision and your review and appeal rights.*

To: Enviropacific Services Limited
1392 Kingsford Smith Drive
Pinkenba QLD 4000
Email: mick.merriman@enviropacific.com.au
cc: ivan.neralic@tetratech.com

Reference: 101/0017235

Attention: Mick Merriman

**Dear Mr Merriman,**

**Re: Application to remove and dispose of 150m$^3$ of contaminated soil from 51-55 Headfort Street, Greenslopes, QLD 4120 (Lots 123, 124 and 125 on RP46047).**

### 1 Decision

The administering authority has considered your application received on 8 June 2023 and has decided to grant the application, but to impose conditions on the permit.

### 2 Grounds for the decision

The granting of the permit subject to the conditions imposed is consistent with the standard criteria defined in Schedule 4 of the Environmental Protection Act 1994 (EP Act).

### 3 Assessment criteria used in making the decision

In accordance with section 424(4) of the EP Act in making its decision to grant the application for disposal permit the administering authority has considered the standard criteria listed in Schedule 4 of the EP Act including:

- best practice environmental management for removal treatment and disposal of contaminated soil
- any applicable environmental protection policy
- any applicable site investigation- report or validation report or site management plan
- any applicable Commonwealth, State or local government plans, standards, agreements or requirements.

## 4 Findings as a result of the administering authority's assessment of the application

The information provided in the disposal permit application is sufficient to justify the disposal of the soil

## 5 Information considered by the administering authority in making its determination

Information provided in the application submitted by Enviropacific Services Limited and validated on 9 June 2023 including:

- Application form and supporting documentation,
- Email correspondence from the applicant, dated 22 June 2023,
- Email correspondence from Veolia Environmental Services, dated 22 June 2023 and
- Letter of acceptance provided by Veolia Environmental Services, dated 7 June 2023 stating they are willing to accept **150m$^3$** of contaminated soil from **51-55 Headfort Street, Greenslopes, QLD 4120 (Lot 123, 124 and 125 RP46047)** for ***Monocell Disposal*** at the **Ti Tree bioENERGY facility**, located at **55 Champions Way, Willowbank, QLD 4306 (Lot 3 on SP167885 & Lot 8 on RP24574)** and operating under the EA EPPR00573913.

Additional information obtained by the department:

- Monocell disposal approval letter from Waste Assessment, DES, dated 1 June 2023. Monocell disposal has been approved until **24 December 2023**.

## 6 Review and appeal details

This decision is not an original decision under the EP Act and so there are no formal review and appeal rights if you are dissatisfied with the decision made by the administering authority. If you are dissatisfied with this decision, you may make an application to the administering authority to review the decision, however, the administering authority is not required to conduct a review. You may have other legal rights and should seek legal advice.

Should you have any questions in relation to this matter, please contact Malika Kirchner from Contaminated Land on (07) 3330 6085.

| | |
|---|---|
| | 22 June 2023 |
| Signature | Date |

Bronwyn Cruse
**Department of Environment and Science**
**Delegate of the Administering Authority**
***Environmental Protection Act 1994***

**Enquiries:**
Malika Kirchner
Contaminated Land Assessment
Department of Environment and Science
Email: Malika.Kirchner@des.qld.gov.au
Ph: (07) 3330 6085

# SOIL DISPOSAL PERMIT

## *Environmental Protection Act 1994* (EP Act)

| | |
|---|---|
| **Disposal permit number:** | **SDP010002171** |
| **Commencement date:** | **23 June 2023** |
| **Expiry Date:** | **24 December 2023** |
| **Permit Holder:** | **Enviropacific Services Limited** |
| **Authorised activity:** | Removal of **150m$^3$** of contaminated soil from **51-55 Headfort Street, Greenslops, QLD 4120 (Lot 123, 124 and 125 RP46047)** for ***Monocell Disposal*** at the **Ti Tree bioENERGY Facility** (Licensed under EA EPPR00573913, Veolia Environmental Services (Australia) Pty Ltd) located at **55 Champions Way, Willowbank, QLD 4306 (Lot 3 on SP167885 & Lot 8 on RP24574).** |
| **Maximum volume:** | **150m$^3$** |

This disposal permit is subject to the conditions endorsed hereon or attached hereto in Schedule A.

| | |
|---|---|
| | 22 June 2023 |
| Signature | Date |

Bronwyn Cruse
**Department of Environment and Science**
**Delegate of the Administering Authority**
***Environmental Protection Act 1994***

**Enquiries:**
Malika Kirchner
Contaminated Land Assessment
Department of Environment and Science
Email: Malika.Kirchner@des.qld.gov.au
Ph: (07) 3330 6085

# Schedule A - Conditions

1. Records of soil removal, treatment and disposal authorised under this permit must be kept for a period of no less than seven years and be available to the administering authority by request. The information to be kept in the records must include:

   a) the quantity of material disposed; and
   b) acceptance receipts from the waste disposal/treatment facility.

2. The permit holder must provide a copy of the permit to any person acting under the permit.

3. Contaminated soil must not be released to air, land or water during excavation, loading, storage, treatment and transport of the soil in a manner that causes environmental harm.

# Notice

**Environmental Protection Act 1994**

## Notice of decision to grant a soil disposal permit with conditions

*This information notice is issued by the administering authority in accordance with section 424(5) of the Environmental Protection Act 1994 (EP Act) to advise you of the decision to grant your application for a soil disposal permit, but to impose conditions on the permit, and to inform you of the reasons for the decision and your review and appeal rights.*

To: Enviropacific Services Limited
1392 Kingsford Smith Drive
Pinkenba, QLD 4008
Email: mick.merriman@enviropacific.com.au
cc: ivan.neralic@enviropacific.com.au

Reference: 101/0017235

Attention: Mick Merriman

**Dear Mr Merriman**

**Re: Application to remove and dispose of 500m$^3$ of contaminated soil from 51-55 Headfort Street, Greenslopes, QLD 4120 (Lots 123, 124 and 125 RP46047).**

### 1 Decision

The administering authority has considered your application received on 22 June 2023 and has decided to grant the application, but to impose conditions on the permit.

### 2 Grounds for the decision

The granting of the permit subject to the conditions imposed is consistent with the standard criteria defined in Schedule 4 of the Environmental Protection Act 1994 (EP Act).

### 3 Assessment criteria used in making the decision

In accordance with section 424(4) of the EP Act in making its decision to grant the application for disposal permit the administering authority has considered the standard criteria listed in Schedule 4 of the EP Act including:

- best practice environmental management for removal treatment and disposal of contaminated soil
- any applicable environmental protection policy
- any applicable site investigation- report or validation report or site management plan
- any applicable Commonwealth, State or local government plans, standards, agreements or requirements.

## 4 Findings as a result of the administering authority's assessment of the application

The information provided in the disposal permit application is sufficient to justify the disposal of the soil.

## 5 Information considered by the administering authority in making its determination

Information provided in the application submitted by Enviropacific Services Limited and validated on 22 June 2023 including:

- Application form and supporting documentation,
- Letter of acceptance provided by BMI Group, dated 21 June 2023 stating they are willing to accept **500m$^3$** of contaminated soil from **51-55 Headfort Street, Greenslopes, QLD 4120 (Lot 123, 124 and 125 RP46047)** for ***Lined Landfill Disposal*** at the **Stapylton Resource Recovery Facility**, located at **144 Rossmanns Road, Stapylton, QLD 4207 (Lots 2 and 3 SP279441)** and operating under the EA P-EA-100287544.

## 6 Review and appeal details

This decision is not an original decision under the EP Act and so there are no formal review and appeal rights if you are dissatisfied with the decision made by the administering authority. If you are dissatisfied with this decision, you may make an application to the administering authority to review the decision, however, the administering authority is not required to conduct a review. You may have other legal rights and should seek legal advice.

Should you have any questions in relation to this matter, please contact Malika Kirchner from Contaminated Land on (07) 3330 6085.

| | |
|---|---|
| | 5 July 2023 |
| Signature | Date |

Kathrin Sherman
**Department of Environment and Science**
**Delegate of the Administering Authority**
***Environmental Protection Act 1994***

**Enquiries:**
Malika Kirchner
Contaminated Land Assessment
Department of Environment and Science
Email: Malika.Kirchner@des.qld.gov.au
Ph: (07) 3330 6085

# SOIL DISPOSAL PERMIT

## *Environmental Protection Act 1994* (EP Act)

**Disposal permit number:** **SDP010002201**

**Commencement date:** **6 July 2023**

**Expiry Date:** **5 July 2024**

**Permit Holder:** **Enviropacific Services Limited**

**Authorised activity:** Removal of **500m$^3$** of contaminated soil from **51-55 Headfort Street, Greenslopes QLD 4120 (Lot 123, 124 and 125 RP46047)** for ***Lined Landfill Disposal*** at the **Stapylton Resource Recovery Facility** (Licensed under EA P-EA-100287544), located at **144 Rossmanns Road, Stapylton, QLD 4207 (Lots 2 and 3 SP279441).**

**Maximum volume:** **500m$^3$**

This disposal permit is subject to the conditions endorsed hereon or attached hereto in Schedule A.

| | |
|---|---|
| | 5 July 2023 |
| Signature | Date |

Kathrin Sherman
**Department of Environment and Science**
**Delegate of the Administering Authority**
***Environmental Protection Act 1994***

**Enquiries:**
Malika Kirchner
Contaminated Land Assessment
Department of Environment and Science
Email: Malika.Kirchner@des.qld.gov.au
Ph: (07) 3330 6085

# Schedule A - Conditions

1. Records of soil removal, treatment and disposal authorised under this permit must be kept for a period of no less than seven years and be available to the administering authority by request. The information to be kept in the records must include:

   a) the quantity of material disposed; and
   b) acceptance receipts from the waste disposal/treatment facility.

2. The permit holder must provide a copy of the permit to any person acting under the permit.

3. Contaminated soil must not be released to air, land or water during excavation, loading, storage, treatment and transport of the soil in a manner that causes environmental harm.

# APPENDIX E: WASTE LEVY EXEMPTION

# Certificate of Exempt Waste

***Waste Reduction and Recycling Act 2011***

## Notice of approval of waste as exempt waste (waste levy)
## Contaminated earth

*This certificate documents the granting of the approval of waste as exempt waste under section 31 of the* Waste Reduction and Recycling Act 2011*. Present this certificate to the waste disposal site operator each time the exempt waste is delivered. The operator will need to see this certificate to record the Exempt Waste Number in the gate transaction record.*
*This approval only relates to exemption from the waste levy. It does not affect requirements or conditions of any soil disposal permit or any other approval, permit or obligation under the* Environmental Protection Act 1994, *the* Waste Reduction and Recycling Act 2011, *or any other act*.

**Exempt Waste Number:** **230021CSE**

### Waste approved as exempt waste: Earth contaminated with a hazardous contaminant from land recorded in the Environmental Management Register (EMR) or Contaminated Land Register (CLR)

**Issued to:**

| | |
|---|---|
| Entity name: | **Enviropacific Services Limited** |
| ABN: | 43 111 372 064 |
| Registered address: | 1392 Kingsford-Smith Drive, Pinkenba, QLD 4008 |
| Contact name: | Ivan Neralic |
| Contact phone number: | (07) 3239 9300 |
| Contact email: | ivan.neralic@tetratech.com<br>mick.merriman@enviropacific.com |

**Exemption period:**

| | |
|---|---|
| Active from: 12 May 2023 | To: 18 May 2025 |

**The following conditions apply to the approval:**

| Condition Number | Condition |
|---|---|
| Condition 1 | The maximum weight of exempt waste must not exceed **910 tonnes** over the exemption period. |

| | |
|---|---|
| Condition 2 | The waste, approved as exempt waste under this certificate, is earth from land listed on the EMR or CLR, contaminated with a hazardous contaminant and is not mixed with any other waste, from the following site:<br>a) 114 Newdegate Street, Greenslopes, QLD 4120<br>Lot 123 on RP46047 (EMR Site ID 148512), Lot 124 on RP46047 (EMR Site ID 148513), and Lot 125 on RP46047 (EMR Site ID 148514) |
| Condition 3 | The waste, approved as exempt waste under this certificate, must be disposed of in accordance with a relevant soil disposal permit issued under the *Environmental Protection Act 1994*. |
| Condition 4 | The waste, approved as exempt waste under this certificate, must be delivered to the levyable waste disposal site[1] of the following sites:<br>a) Stapylton Resource Recovery (C203143)<br>144 Rossmanns Road, Stapylton, QLD 4207<br>b) Ti Tree Bioenergy (C114122)<br>Champions Way, Willowbank, QLD 4306 |

David Drew
Department of Environment and Science
Delegate for chief executive
*Waste Reduction and Recycling Act 2011*

Date granted: 12 May 2023

**Enquiries:**
Waste and Enforcement Services
Department of Environment and Science
Email: wastelevyapps@des.qld.gov.au

[1] Levyable waste disposal site does not include a part of the waste disposal site that is a resource recovery area, as per definition in the *Waste Reduction and Recycling Act 2011*.

# APPENDIX F: DATA QUALITY OBJECTIVES AND INDICATORS

As stated in Section 18 Appendix B of Schedule B2 of the ASC NEPM, the DQO process is a seven-step iterative planning approach used to define the type, quantity and quality of data needed to support decisions relating to the environmental condition of a site.

The seven-step DQO process adopted for the validation of remediation is summarised in the following table.

## F.1 DATA QUALITY OBJECTIVES

| | |
|---|---|
| **1. State the problem** | The primary objectives for the remediation of the Site are to make it suitable for park and community use, and to remove the OCP contaminated soil from the Site as practicable such that the property can be removed from the EMR.<br>Remediation is required to remove the Site from the EMR and will include:<br>• the removal of OCP impacted soil materials which exceed the Remediation Criteria in Section 7.3<br>• the removal of Unsuitable Fill Materials (fill materials containing anthropogenic materials which pose physical hazards (sharp and angular) are unsuitable for use in a park/open space)<br>Validation of the Site is required to confirm that the remediation objectives have been achieved. The main problems are:<br>• What areas require remediation?<br>• How should site soils be validated?<br>• What validation sampling density should be used?<br>• What contaminants should be analysed for? |
| **2. Identify the decision** | Is the data suitable for assessing whether the areas requiring remediation have been remediated?<br>Is the Site suitable for the proposed land uses? |
| **3. Identify inputs to the decision** | The primary inputs to assessing the above include:<br>• Previous investigations (where applicable)<br>• Field observations including the presence of Unsuitable Fill Materials<br>• Analytical data of validation sample media, and quality assurance / quality control (QA/QC) samples<br>• Data quality protocols<br>• Remediation criteria (refer to Section 7.3). |
| **4. Define the boundaries of the study** | The boundaries for the validation sampling program are identified as follows:<br>• Spatial Boundaries: Lot 123 on RP46047, Lot 124 on RP46047, and Lot 125 on RP46047.<br>• Temporal boundaries: The status of the sampling points at the time of the investigation.<br>• The vertical study boundary will be the depth of the validation samples described in Section 8.6. |

| | |
|---|---|
| **5. Develop a decision rule** | The decision rules to be applied to the DSI include:<br>For OCPs in soil, the following approach is to be adopted:<br>• Where OCPs concentrations for each sample are below the adopted remediation criteria, no further remediation is required.<br>• Where soil contaminant concentrations are reported to exceed the adopted remediation criteria, and it is not practicable to remediate the Site so it can be removed from the EMR, the soil contaminant concentrations will be compared to NEPM HIL-C criteria. If there is an exceedance of HIL-C remediation criteria the following additional steps will be undertaken:<br>– Where sufficient data is available, calculate the 95% Upper Confidence Level of the mean (95%UCL), data range and standard deviation.<br>– Where the 95% UCLs are less than the assessment criteria and no individual results in the data set are to be greater than 250% of the assessment criteria; and the standard deviation of the data set is to be within 50% of the assessment criteria, no further remediation is required.<br>– Where the 95% UCL is more than the assessment criteria, consider these results in the context of the current CSM to evaluate whether there are plausible pollutant linkages remaining.<br>– If plausible pollutant linkages are identified, then further remediation should be undertaken to remove impacted soil.<br>For Unsuitable Fill Materials, the following approach is to be adopted:<br>• A SQP who is competent in the identification of Unsuitable Fill Materials will inspect the site to confirm that these materials have been removed. |
| **6. Acceptable limits on decision error** | Decision errors are incorrect decisions caused by using data that is not representative of site conditions due to sampling or analytical error. As a result, a decision may be made that remediation/management is not needed when it is, or vice versa. There are two types of decision error:<br>• Sampling errors, which occur when the samples collected are not representative of the conditions within the investigation area; and<br>• Measurement errors, which occur during sample collection, handling, preparation, analysis and data reduction.<br>To consider whether decision errors have been made, an assessment of data quality indicators will be undertaken as described in Section 8.6.4 (including a QA/QC assessment of the data collected). The closeness of the data to the assessment criteria will also be considered. |
| **7. Optimise the design for obtaining data** | The methodology and rationale for obtaining relevant data for validation is described in Section 8.6. |

## F.2 DATA QUALITY INDICATORS

Data Quality Indicators (DQIs) are used to show that the DQOs have been met. DQIs for the project are based on the field and laboratory considerations in Section 19.6 of ASC NEPM 2013 Schedule B2 Appendix B, which include:

- Completeness – a measure of the amount of useable data (expressed as %) from a data collection activity.
- Comparability – the confidence (expressed qualitatively) that data may be considered to be equivalent for each sampling and analytical event.
- Representativeness – the confidence (expressed qualitatively) that data are representative of each media present on the Site.
- Precision – A quantitative measure of the variability (or reproducibility) of data.
- Accuracy – a quantitative measure of the closeness of reported data to the true value; and
- The QA review will include a check of performance against the DQIs.

The DQIs adopted for soil sampling is discussed in the following tables.

**Table A: DQI Completeness**

| DQI | Field Considerations | DQI Criteria | Laboratory Considerations | DQI Criteria |
|---|---|---|---|---|
| Completeness | Critical locations sampled | Samples will be collected from nominated locations with no deviation from the sampling plan, without reasonable justification. | Critical samples analysed according to sampling plan. | Samples will be analysed for COPC. |
| | Samples collected | Samples will be collected in accordance with Tetra Tech Coffey's Standard Operating Procedures (SOPs) during the assessment. | Identified COPCs included. | As above. |
| | Standard Operating Procedures (SOPs) appropriate and complied with | No departure from Tetra Tech Coffey SOPs without reasonable justification. | Appropriate methods and LORs | Samples will be analysed by NATA accredited laboratories, for the analyses to be performed and appropriate methods were used. LORs were less than assessment criteria. |
| | Experienced sampler | Experienced Tetra Tech Coffey Environmental Scientists will undertake the sampling. | Sample documentation complete | Chain of custody's (COCs) will be returned, signed and dated by laboratory. NATA endorsed laboratory |

| | | | | |
|---|---|---|---|---|
| | | | | certificates will be completed in accordance with Schedule B3 of the ASC NEPM. Field logs will be completed in accordance with Coffey SOPs. |
| | Documentation correct | Samples will be handled and transported under appropriate chain of custody (COC) documentation. Coffey will keep original COC documentation.<br>Sample Receipt Notifications (SRN) from the laboratory will be reviewed to assess that samples were received cool and in good condition. | Sample holding times will be complied with | Samples will be analysed within holding times specified in Schedule B3 of the ASC NEPM. |

Table B: DQI Comparability

| DQI | Field Considerations | DQI Criteria | Laboratory Considerations | DQI Criteria |
|---|---|---|---|---|
| Comparability | Same SOPs used on each occasion | Tetra Tech Coffey SOPs will be implemented. | Same sample analytical methods will be used. | The same NATA accredited laboratories will be used to undertake analyses of primary, duplicate and triplicate samples collected for this study. The laboratory will use the same analytical methods for each sample for each analytical parameter. |
| | Experienced sampler | Experienced Tetra Tech Coffey Environmental Scientist will conduct sampling. | Same sample LORs | As above |
| | Climatic conditions (temperature, rainfall, wind etc.) | Environmental scientist will attempt to sample in similar climatic conditions if practicable. | Same laboratories | As above |
| | Same types of samples collected | Samples will be collected in the appropriate laboratory supplied container specific to the analyses performed. | Same units | As above |

**Table C: DQI Representativeness**

| DQI | Field Considerations | DQI Criteria | Laboratory Considerations | DQI Criteria |
|---|---|---|---|---|
| Representativeness | Appropriate media sampled according to sample plan | Soil samples and groundwater will be collected and analysed in accordance with TETRA TECH COFFEYs SOPs. | Appropriate media sampled according to this plan | Collected samples will be analysed by NATA accredited laboratories. |
| | All media identified in sample plan | Soil collected and analysed in accordance with TETRA TECH COFFEYs SOPs. | - | - |
| | SOPs appropriate and complied | TETRA TECH COFFEYs SOPs will be implemented. | Analysis of field duplicates | Laboratory duplicates will be analysed in general accordance with ASC NEPM. Duplicate and triplicate samples collected for soil. |

Table D: DQI Precision

| DQI | Field Considerations | DQI Criteria | Laboratory Considerations | DQI Criteria |
|---|---|---|---|---|
| Precision | SOPs appropriate will be complied with | Tetra Tech Coffey's SOPs will be implemented. | Analysis of laboratory duplicates | Relative Percent Differential (RPD) values for laboratory duplicates and recovery of matrix spikes should be within acceptable ranges. |
| | Analysis of field duplicates | As for laboratory considerations | Analysis of field duplicates | Duplicates were analysed at a frequency set out in Section 8.7.4.<br>RPDs will be calculated and compared to relevant acceptance criteria.<br>Tetra Tech Coffey will adopt 30% for concentrations more than 10 times the LOR and 50% for concentrations less than 10 times the LOR (Standards Australia 1997). |

**Table E: DQI Accuracy**

| DQI | Field Considerations | DQI Criteria | Laboratory Considerations | DQI Criteria |
|---|---|---|---|---|
| Accuracy | SOP appropriate and complied with | Tetra Tech Coffey SOPs will be implemented | Same sample analytical methods will be used. | The same NATA accredited laboratories will be used to undertake analyses of primary, duplicate and triplicate samples collected for this study. The laboratory will use the same analytical methods for each sample for each analytical parameter. |
| | Trip blanks | Trip blank sample will be collected using laboratory supplied distilled water. | Trip blanks | A laboratory prepared trip blank will be included for each sample set. |
| | Rinsate sample | Where reusable sampling equipment is utilised (if any) a rinsate sample will be collected using laboratory supplied distilled water.<br><br>If rinsate sampling is not completed as part of the assessment, justification will be required. | Rinsate sample | Non-detection of COPCs in rinsate sample. |
| | - | - | Laboratory duplicate and Matrix spike | RPD values for laboratory control duplicates and recovery of matrix spikes should be within acceptance limits. |

# APPENDIX G: MATERIALS REQUIRING REMEDIATION

**Table A: Materials Requiring Remediation Ground Surface to 0.25 m bgs (refer to Figure 4A, Appendix 1)**

| Area | Requirement for Remediation |
|---|---|
| **Area 1A**<br>**Area 1B**<br>**Area 1C**<br>**Area 3C** | **Requirement for Remediation**<br>OCPs exceed NEPM HIL-C and NEPM HIL-A guidelines for parks and open space and residential areas respectively and exceeded the lined landfill acceptance criteria. While the majority of OCP contamination is expected to be within the first 0.2 m bgs of soil, based on the existing data OCP contamination extends further into deeper soil deposits (~0.4 m bgs).<br>ACM is potentially present in shallow soil materials. Fill materials containing anthropogenic materials which pose physical hazards (sharp and angular) are unsuitable for use in a park/open space are also potentially present and are herein referred to in this RAP as "Unsuitable Fill Materials".<br>Materials in these areas to be excavated to 0.25 m bgs for disposal to monocell. Refer to Table C in this appendix regarding how areas requiring disposal to monocell have been defined. |
| **Area 1** | **Requirement for Remediation**<br>OCPs in Area 1 exceed NEPM HIL-C and NEPM HIL-A guidelines for parks and open space and residential areas respectively. While the majority of OCP contamination is expected to be within the first 0.2 m bgs of soil, based on the existing data OCP contamination extends further into deeper soil deposits (~0.4 to 0.5 m bgs).<br>ACM is potentially present in shallow soil materials. Fill materials containing anthropogenic materials which pose physical hazards (sharp and angular) are unsuitable for use in a park/open space are also potentially present and are herein referred to in this RAP as "Unsuitable Fill Materials".<br>Materials in this area is to be excavated to 0.25 m bgs for disposal to lined landfill as contaminated soil potentially containing ACM. |
| **Area 2** | **Requirement for Remediation**<br>Area 2 has detectable concentration of OCP with concentrations below NEPM HIL-A guidelines for residential areas with accessible gardens. Based on the existing data OCP contamination is expected to be within the upper 0.2 m of soil, however there would be potential for detectable concentrations to be present which are deeper than 0.2 m.<br>ACM is potentially present in shallow soil materials. Unsuitable Fill Materials are also potentially present.<br>Materials in this area is to be excavated to 0.25 m bgs for disposal to lined landfill as contaminated soil potentially containing ACM. |
| **Area 3A**<br>**Area 3B** | **Requirement for Remediation**<br>Area 3A/3B has detectable concentration of OCP with concentrations below NEPM HIL-A guidelines for residential areas with accessible gardens[19]. Based on the existing data OCP contamination is expected to be within the upper 0.2 m of soil, detectable concentrations have also been identified in materials deeper than 0.2 m bgs.<br>ACM is potentially present in shallow soil materials. Unsuitable Fill Materials are also potentially present.<br>Materials in this area is to be excavated to 0.25 m bgs for disposal to lined landfill as contaminated soil potentially containing ACM. |
| **Area 4A** | **Requirement for Remediation**<br>OCPs in Area 4A are below the NEPM HIL-A guidelines for residential areas with accessible gardens. Detectable OCPs concentrations were observed at the perimeter of Area 4A (at sampling locations BH01, BH03, BH12). These detectable OCP concentrations are below the NEPM HIL-A guidelines for residential areas with accessible gardens; however, they exceed the adopted remediation criteria of standard LOR (Section 7.3).<br>ACM is not expected to be present in shallow soil materials in this area based on the site geology being natural material (and no apparent fill) and the soil material being covered in hardstand.<br>Following the removal of concrete materials soil materials are to be excavated to 0.25 m bgs for recovery for beneficial reuse at BMI Group at the Redbank Resource Recovery Facility. |
| **Area 4B** | **Requirement for Remediation**<br>OCPs in Area 4B were not detected in the samples analysed from this area.<br>ACM is not expected to be present in shallow soil materials in this area based on available data and the soil material being covered in hardstand.<br>No excavation of these materials is planned with the exception of Unsuitable Fill Materials (if present). Materials in this area to be recovered for beneficial reuse at BMI Group at the Redbank Resource Recovery Facility where Unsuitable Fill Materials are present. |

Note: **Unsuitable Fill Materials** are those containing anthropogenic materials which pose physical hazards (sharp and angular) are unsuitable for use in a park/open space.

[19] Sample locations 6,7 and 4,5 are considered to be representative of Area 3A/Area 3B

### Table B: Materials Requiring Remediation 0.25 m bgs to 0.4 m bgs (refer to Figure 4B, Appendix 1)

| Area | Requirement for Remediation |
|---|---|
| **Area 1** | **Requirement for Remediation**<br>OCPs in Area 1 exceed NEPM HIL-C and NEPM HIL-A guidelines for parks and open space and residential areas respectively. While the majority of OCP contamination is expected to be within the first 0.2 m bgs of soil, based on the existing data OCP contamination extends further into deeper soil deposits (~0.4 to 0.5 m bgs).<br>Materials in this area is to be excavated from 0.25 to 0.4 m bgs for beneficial reuse at BMI Group at the Redbank Resource Recovery Facility. |
| **Area 2** | **Requirement for Remediation**<br>Area 2 has detectable concentration of OCP with concentrations below NEPM HIL-A guidelines for residential areas with accessible gardens. Based on the existing data OCP contamination is expected to be within the upper 0.2 m of soil, however there would be potential for detectable concentrations to be present which are deeper than 0.2 m.<br>Materials in this area is to be excavated from 0.25 to 0.4 m bgs for beneficial reuse at BMI Group at the Redbank Resource Recovery Facility. |
| **Area 4A**<br>**Area 4B** | **Requirement for Remediation**<br>Materials in this area is to be excavated from 0.25 to 0.4 m bgs for beneficial reuse at BMI Group at the Redbank Resource Recovery Facility where Unsuitable Fill Materials are present. |

Notes:

1) **Unsuitable Fill Materials** are those containing anthropogenic materials which pose physical hazards (sharp and angular) are unsuitable for use in a park/open space.

2) Further excavation to that described in the tables may be required based on the validation data and the presence of Unsuitable Fill Materials.

### Table C: Monocell

| Area | Description |
|---|---|
| **1A** | Sample HA10 exceeded lined landfill acceptance criteria for Total OCP, and Sample 11 exceeded the lined landfill acceptance criteria TCLP dieldrin. Soil materials requiring disposal to monocell are bound by sample locations BH11 / 15, 14, BH19 and 12, which were all within lined landfill criteria.<br>Refer to Note 1 regarding vertical delineation. |
| **1B** | Sample 9, HA09 and BH21 exceeded lined landfill acceptance criteria for Total OCP. The area is bound by samples 8, 16, BH13, 10 and HA07/SA12.<br>Refer to Note 1 regarding vertical delineation. |
| **1C** | Sample location 34 exceeded lined landfill criteria for TCLP Dieldrin. The monocell area is bound by the site northern boundary and sample locations 18 and HA06/SA11 in the south. Prior to the excavation of materials north of the accommodation building confirmatory samples at 5 m spacings (0-0.1 m bgs) will be collected along the length of the northern side of the building and analysed for OCPs and TCLP OCP. The results of sampling will be provided to the Site Auditor in an email and included in the CLID and will confirm the eastern/western extent of Area 1C which has been assumed in the RAP. QA/QC sampling will also be undertaken based on Section 8.7.4.<br>Refer to Note 1 regarding vertical delineation. |
| **3C** | Sample locations HA02 and [-0n9hb8uiyhgthuijkop;[‘<br>HA03 exceeded lined landfill acceptance criteria for Total TCLP. These samples were collected from the garden bed adjacent to the building in 2013 (see photograph below table) and the locations were resampled in 2019 (6P for HA02; and 7P for HA03) which returned concentrations below the lined landfill acceptance criteria. All other samples along the garden bed collected in 2019 (1, 2, 3) had concentrations below the lined landfill acceptance criteria. Based on the requirements of the recipient landfill a conservative position has been taken in regard the disposal of soil to monocell. Area 3C has been assumed to include materials in the garden bed from sample location 3 to approximately 2.5 m west of HA02. Sample locations in this area include HA02, 6P, HA03, 7P, 2, 3, SSA/A06.<br>Dimensions of Area 3C: Within the garden bed the eastern most extent of Area 3C starts at 15 m from the eastern property boundary. The length of this area is 21 m and its width is the width of the garden bed (see photograph below table).<br>Refer to Note 1 regarding vertical delineation. |

Note 1: Elevated concentrations of OCPs have been observed in materials less than 0.2 m bgs in the majority of sample locations which is consistent with the application of termiticides into shallow soils ~0.1 m bgs. Refer to Section 9.1 of the Supplementary Investigation for further information.

Area 3C Garden Bed

# APPENDIX M: SITE SUITABILITY TEMPLATE

# Site suitability statement

*This template is for use by suitably qualified persons preparing a site suitability statement for a contaminated land investigation document in accordance with s.389 of the Environmental Protection Act 1994 (EP Act). This template should be used in conjunction with the Guideline: Listing and removing land on the land registers (ESR/2016/2044), the Contaminated land investigation document – approved form and the Queensland Auditor Handbook for Contaminated Land, Module 6: Content requirements for contaminated land investigation documents, certifications and audit reports (ESR/2018/4224), available at www.qld.gov.au.*

☒ **Outcome 1 has been met – The land is not contaminated land and is suitable for any use**

The land described as Lot 123 RP46047 is not contaminated land and is suitable for unrestricted land use, including **Land Use A** (residential with garden/accessible soil; childcare centres, preschools, and primary schools with access to soil) and any sensitive land uses listed in Schedule 24 of the Planning Regulation 2017. It has been demonstrated that:

1. the land is not being used for a notifiable activity, and
2. the land is not affected by a hazardous contaminant, and
3. the land is not prescribed contaminated land, and
4. an appropriate assessment of site contamination has been conducted using current best practice and in accordance with the current state and Commonwealth legislation, policies and guidelines, Australian Standards, and the National Environment Protection (Assessment of Site Contamination) Measure 1999.

**OR**

☐ **Outcome 2 has been met – The land is suitable for specified uses, without warranting a site management plan**

The land described as <INSERT LOT AND PLAN NUMBER(S)> is contaminated by<INSERT HAZARDOUS CONTAMINANT(S)> affecting <<INSERT MEDIA, (e.g. soil, groundwater, etc)>

The land is suitable for **Land use D** (Commercial/industrial, including shops, offices, factories and industrial sites) including associated activities without the need for specific management or monitoring.

However, the land is NOT suitable for the following specified use(s):

**Land use A** (Residential with garden/accessible soil; childcare centres, preschools, and primary schools with access to soil), and any sensitive uses listed in Schedule 24 of the Planning Regulation 2017; or

**Land use B** (Residential, childcare centres, preschools, and primary schools with minimal opportunities for access to impacted soil (capped site), vapour and/or groundwater; dwellings with fully and permanently paved yard space such as units, high-rise buildings and apartments); or

**Land use C** (Public open space, including parks, playgrounds, and playing fields (e.g. ovals); secondary schools; and footpaths).

It has been demonstrated that an appropriate assessment of site contamination has been conducted using current best practice and in accordance with the current state and Commonwealth legislation, policies and guidelines, Australian Standards, and the National Environment Protection (Assessment of Site Contamination) Measure 1999.

The suitability of the land for the stated use(s) does not warrant the implementation of a site management plan to manage the contamination because an alternative enduring mechanism under the *Environmental Protection Act 1994* for managing the risks associated with the hazardous contaminant(s) has been required or approved by the administering authority. The alternative mechanism is <PROVIDE FULL



Queensland Government

DETAILS OF THE MECHANISM, WHO IS RESPONSIBLE FOR IMPLEMENTING IT, AND HOW IT WILL BE MONITORED>.

**OR**

☐ **Outcome 3 has been met – The land is suitable for specified uses, subject to complying with a site management plan**

The land described as <INSERT LOT AND PLAN NUMBER(S)> is contaminated by <INSERT HAZARDOUS CONTAMINANT(S)> affecting <INSERT MEDIA (e.g. soil, groundwater, etc.)>.

The land is suitable for the following specified use(s) including associated activities:

<INSERT ANY OF THE FOLLOWING THAT ARE APPROPRIATE: Land use B (Residential, childcare centres, preschools, and primary schools with minimal opportunities for access to impacted soil (capped site), vapour and/or groundwater; dwellings with fully and permanently paved yard space such as units, high-rise buildings and apartments); AND/OR Land use C (Public open space, including parks, playgrounds, and playing fields (e.g. ovals); secondary schools; and footpaths); AND/OR Land use D (Commercial/industrial, including shops, offices, factories and industrial sites)>.

There is no potential now or in the future for contamination to migrate off the site through preferential pathways or secondary sources.

It has been demonstrated that an appropriate assessment of site contamination has been conducted using current best practice and in accordance with the current state and Commonwealth legislation, policies and guidelines, Australian Standards, and the National Environment Protection (Assessment of Site Contamination) Measure 1999.

The draft site management plan submitted for approval is <INSERT TITLE AND DATE OF DRAFT SITE MANAGEMENT PLAN OR DRAFT AMENDED SITE MANAGEMENT PLAN>.

However, the land is NOT suitable for the following specified use(s):

**Land use A** (Residential with garden/accessible soil; childcare centres, preschools, and primary schools with access to soil); <AND, IF NECESSARY, INSERT ANY OF THE FOLLOWING THAT ARE APPROPRIATE: Land use B (Residential, childcare centres, preschools, and primary schools with minimal opportunities for access to impacted soil (capped site), vapour and/or groundwater; dwellings with fully and permanently paved yard space such as units, high-rise buildings and apartments); AND/OR Land use C (Public open space, including parks, playgrounds, and playing fields (e.g. ovals); secondary schools; and footpaths); AND/OR Land use D (Commercial/industrial, including shops, offices, factories and industrial sites)>.

**OR**

☐ **Outcome 4 has been met – Insufficient information to determine site suitability**

The land described as <INSERT LOT AND PLAN NUMBER(S)> is contaminated by <INSERT HAZARDOUS CONTAMINANT(S)> affecting <INSERT MEDIA (e.g. soil, groundwater)>

As at <INSERT DATE> the land is currently being investigated, and there is insufficient information to determine site suitability at this time.

**Notes:**

**Land use A –** Residential with garden/accessible soil; childcare centres, preschools, and primary schools with access to soil.

**Land use B –** Residential, childcare centres, preschools, primary schools with minimal opportunities for access to impacted soil (capped site), vapour and/or groundwater; dwellings with fully and permanently paved yard space such as units, high-rise buildings and apartments.

**Land use C –** Public open space, including parks, playgrounds, and playing fields (e.g. ovals); secondary schools; and footpaths.

**Land use D –** Commercial/industrial, including shops, offices, factories and industrial sites.

A site-specific risk assessment is required to determine site suitability where a current use includes commercial agriculture including fodder production, or greater than 10% consumption of garden produce, or consumption of home grown eggs, poultry or meat, or irrigation of produce, or watering of stock with contaminated water.

# Site suitability statement

*This template is for use by suitably qualified persons preparing a site suitability statement for a contaminated land investigation document in accordance with s.389 of the Environmental Protection Act 1994 (EP Act). This template should be used in conjunction with the Guideline: Listing and removing land on the land registers (ESR/2016/2044), the Contaminated land investigation document – approved form and the Queensland Auditor Handbook for Contaminated Land, Module 6: Content requirements for contaminated land investigation documents, certifications and audit reports (ESR/2018/4224), available at www.qld.gov.au.*

☒ **Outcome 1 has been met – The land is not contaminated land and is suitable for any use**

The land described as Lot 124 RP46047 is not contaminated land and is suitable for unrestricted land use, including **Land Use A** (residential with garden/accessible soil; childcare centres, preschools, and primary schools with access to soil) and any sensitive land uses listed in Schedule 24 of the Planning Regulation 2017. It has been demonstrated that:

1. the land is not being used for a notifiable activity, and
2. the land is not affected by a hazardous contaminant, and
3. the land is not prescribed contaminated land, and
4. an appropriate assessment of site contamination has been conducted using current best practice and in accordance with the current state and Commonwealth legislation, policies and guidelines, Australian Standards, and the National Environment Protection (Assessment of Site Contamination) Measure 1999.

**OR**

☐ **Outcome 2 has been met – The land is suitable for specified uses, without warranting a site management plan**

The land described as <INSERT LOT AND PLAN NUMBER(S)> is contaminated by<INSERT HAZARDOUS CONTAMINANT(S)> affecting <<INSERT MEDIA, (e.g. soil, groundwater, etc)>

The land is suitable for **Land use D** (Commercial/industrial, including shops, offices, factories and industrial sites) including associated activities without the need for specific management or monitoring.

However, the land is NOT suitable for the following specified use(s):

**Land use A** (Residential with garden/accessible soil; childcare centres, preschools, and primary schools with access to soil), and any sensitive uses listed in Schedule 24 of the Planning Regulation 2017; or

**Land use B** (Residential, childcare centres, preschools, and primary schools with minimal opportunities for access to impacted soil (capped site), vapour and/or groundwater; dwellings with fully and permanently paved yard space such as units, high-rise buildings and apartments); or

**Land use C** (Public open space, including parks, playgrounds, and playing fields (e.g. ovals); secondary schools; and footpaths).

It has been demonstrated that an appropriate assessment of site contamination has been conducted using current best practice and in accordance with the current state and Commonwealth legislation, policies and guidelines, Australian Standards, and the National Environment Protection (Assessment of Site Contamination) Measure 1999.

The suitability of the land for the stated use(s) does not warrant the implementation of a site management plan to manage the contamination because an alternative enduring mechanism under the *Environmental Protection Act 1994* for managing the risks associated with the hazardous contaminant(s) has been required or approved by the administering authority. The alternative mechanism is <PROVIDE FULL



Queensland Government

DETAILS OF THE MECHANISM, WHO IS RESPONSIBLE FOR IMPLEMENTING IT, AND HOW IT WILL BE MONITORED>.

**OR**

☐ **Outcome 3 has been met – The land is suitable for specified uses, subject to complying with a site management plan**

The land described as <INSERT LOT AND PLAN NUMBER(S)> is contaminated by <INSERT HAZARDOUS CONTAMINANT(S)> affecting <INSERT MEDIA (e.g. soil, groundwater, etc.)>.

The land is suitable for the following specified use(s) including associated activities:

<INSERT ANY OF THE FOLLOWING THAT ARE APPROPRIATE: Land use B (Residential, childcare centres, preschools, and primary schools with minimal opportunities for access to impacted soil (capped site), vapour and/or groundwater; dwellings with fully and permanently paved yard space such as units, high-rise buildings and apartments); AND/OR Land use C (Public open space, including parks, playgrounds, and playing fields (e.g. ovals); secondary schools; and footpaths); AND/OR Land use D (Commercial/industrial, including shops, offices, factories and industrial sites)>.

There is no potential now or in the future for contamination to migrate off the site through preferential pathways or secondary sources.

It has been demonstrated that an appropriate assessment of site contamination has been conducted using current best practice and in accordance with the current state and Commonwealth legislation, policies and guidelines, Australian Standards, and the National Environment Protection (Assessment of Site Contamination) Measure 1999.

The draft site management plan submitted for approval is <INSERT TITLE AND DATE OF DRAFT SITE MANAGEMENT PLAN OR DRAFT AMENDED SITE MANAGEMENT PLAN>.

However, the land is NOT suitable for the following specified use(s):

**Land use A** (Residential with garden/accessible soil; childcare centres, preschools, and primary schools with access to soil); <AND, IF NECESSARY, INSERT ANY OF THE FOLLOWING THAT ARE APPROPRIATE: Land use B (Residential, childcare centres, preschools, and primary schools with minimal opportunities for access to impacted soil (capped site), vapour and/or groundwater; dwellings with fully and permanently paved yard space such as units, high-rise buildings and apartments); AND/OR Land use C (Public open space, including parks, playgrounds, and playing fields (e.g. ovals); secondary schools; and footpaths); AND/OR Land use D (Commercial/industrial, including shops, offices, factories and industrial sites)>.

**OR**

☐ **Outcome 4 has been met – Insufficient information to determine site suitability**

The land described as <INSERT LOT AND PLAN NUMBER(S)> is contaminated by <INSERT HAZARDOUS CONTAMINANT(S)> affecting <INSERT MEDIA (e.g. soil, groundwater)>

As at <INSERT DATE> the land is currently being investigated, and there is insufficient information to determine site suitability at this time.

**Notes:**

**Land use A –** Residential with garden/accessible soil; childcare centres, preschools, and primary schools with access to soil.

**Land use B –** Residential, childcare centres, preschools, primary schools with minimal opportunities for access to impacted soil (capped site), vapour and/or groundwater; dwellings with fully and permanently paved yard space such as units, high-rise buildings and apartments.

**Land use C –** Public open space, including parks, playgrounds, and playing fields (e.g. ovals); secondary schools; and footpaths.

**Land use D –** Commercial/industrial, including shops, offices, factories and industrial sites.

A site-specific risk assessment is required to determine site suitability where a current use includes commercial agriculture including fodder production, or greater than 10% consumption of garden produce, or consumption of home grown eggs, poultry or meat, or irrigation of produce, or watering of stock with contaminated water.

# Site suitability statement

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☒ **Outcome 1 has been met – The land is not contaminated land and is suitable for any use**

The land described as Lot 125 RP46047 is not contaminated land and is suitable for unrestricted land use, including **Land Use A** (residential with garden/accessible soil; childcare centres, preschools, and primary schools with access to soil) and any sensitive land uses listed in Schedule 24 of the Planning Regulation 2017. It has been demonstrated that:

1. the land is not being used for a notifiable activity, and
2. the land is not affected by a hazardous contaminant, and
3. the land is not prescribed contaminated land, and
4. an appropriate assessment of site contamination has been conducted using current best practice and in accordance with the current state and Commonwealth legislation, policies and guidelines, Australian Standards, and the National Environment Protection (Assessment of Site Contamination) Measure 1999.

**OR**

☐ **Outcome 2 has been met – The land is suitable for specified uses, without warranting a site management plan**

The land described as <INSERT LOT AND PLAN NUMBER(S)> is contaminated by<INSERT HAZARDOUS CONTAMINANT(S)> affecting <<INSERT MEDIA, (e.g. soil, groundwater, etc)>

The land is suitable for **Land use D** (Commercial/industrial, including shops, offices, factories and industrial sites) including associated activities without the need for specific management or monitoring.

However, the land is NOT suitable for the following specified use(s):

**Land use A** (Residential with garden/accessible soil; childcare centres, preschools, and primary schools with access to soil), and any sensitive uses listed in Schedule 24 of the Planning Regulation 2017; or

**Land use B** (Residential, childcare centres, preschools, and primary schools with minimal opportunities for access to impacted soil (capped site), vapour and/or groundwater; dwellings with fully and permanently paved yard space such as units, high-rise buildings and apartments); or

**Land use C** (Public open space, including parks, playgrounds, and playing fields (e.g. ovals); secondary schools; and footpaths).

It has been demonstrated that an appropriate assessment of site contamination has been conducted using current best practice and in accordance with the current state and Commonwealth legislation, policies and guidelines, Australian Standards, and the National Environment Protection (Assessment of Site Contamination) Measure 1999.

The suitability of the land for the stated use(s) does not warrant the implementation of a site management plan to manage the contamination because an alternative enduring mechanism under the *Environmental Protection Act 1994* for managing the risks associated with the hazardous contaminant(s) has been required or approved by the administering authority. The alternative mechanism is <PROVIDE FULL



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DETAILS OF THE MECHANISM, WHO IS RESPONSIBLE FOR IMPLEMENTING IT, AND HOW IT WILL BE MONITORED>.

**OR**

☐ **Outcome 3 has been met – The land is suitable for specified uses, subject to complying with a site management plan**

The land described as <INSERT LOT AND PLAN NUMBER(S)> is contaminated by <INSERT HAZARDOUS CONTAMINANT(S)> affecting <INSERT MEDIA (e.g. soil, groundwater, etc.)>.

The land is suitable for the following specified use(s) including associated activities:

<INSERT ANY OF THE FOLLOWING THAT ARE APPROPRIATE: Land use B (Residential, childcare centres, preschools, and primary schools with minimal opportunities for access to impacted soil (capped site), vapour and/or groundwater; dwellings with fully and permanently paved yard space such as units, high-rise buildings and apartments); AND/OR Land use C (Public open space, including parks, playgrounds, and playing fields (e.g. ovals); secondary schools; and footpaths); AND/OR Land use D (Commercial/industrial, including shops, offices, factories and industrial sites)>.

There is no potential now or in the future for contamination to migrate off the site through preferential pathways or secondary sources.

It has been demonstrated that an appropriate assessment of site contamination has been conducted using current best practice and in accordance with the current state and Commonwealth legislation, policies and guidelines, Australian Standards, and the National Environment Protection (Assessment of Site Contamination) Measure 1999.

The draft site management plan submitted for approval is <INSERT TITLE AND DATE OF DRAFT SITE MANAGEMENT PLAN OR DRAFT AMENDED SITE MANAGEMENT PLAN>.

However, the land is NOT suitable for the following specified use(s):

**Land use A** (Residential with garden/accessible soil; childcare centres, preschools, and primary schools with access to soil); <AND, IF NECESSARY, INSERT ANY OF THE FOLLOWING THAT ARE APPROPRIATE: Land use B (Residential, childcare centres, preschools, and primary schools with minimal opportunities for access to impacted soil (capped site), vapour and/or groundwater; dwellings with fully and permanently paved yard space such as units, high-rise buildings and apartments); AND/OR Land use C (Public open space, including parks, playgrounds, and playing fields (e.g. ovals); secondary schools; and footpaths); AND/OR Land use D (Commercial/industrial, including shops, offices, factories and industrial sites)>.

**OR**

☐ **Outcome 4 has been met – Insufficient information to determine site suitability**

The land described as <INSERT LOT AND PLAN NUMBER(S)> is contaminated by <INSERT HAZARDOUS CONTAMINANT(S)> affecting <INSERT MEDIA (e.g. soil, groundwater)>

As at <INSERT DATE> the land is currently being investigated, and there is insufficient information to determine site suitability at this time.

**Notes:**

**Land use A –** Residential with garden/accessible soil; childcare centres, preschools, and primary schools with access to soil.

**Land use B –** Residential, childcare centres, preschools, primary schools with minimal opportunities for access to impacted soil (capped site), vapour and/or groundwater; dwellings with fully and permanently paved yard space such as units, high-rise buildings and apartments.

**Land use C –** Public open space, including parks, playgrounds, and playing fields (e.g. ovals); secondary schools; and footpaths.

**Land use D –** Commercial/industrial, including shops, offices, factories and industrial sites.

A site-specific risk assessment is required to determine site suitability where a current use includes commercial agriculture including fodder production, or greater than 10% consumption of garden produce, or consumption of home grown eggs, poultry or meat, or irrigation of produce, or watering of stock with contaminated water.