



**DalCo & Covo Positino**  
Detailed Environmental Site  
Investigation Report

104 Fifteenth Avenue  
West Hoxton, NSW

19 March 2021



**DalCo & Covo Positino**  
Detailed Environmental Site  
Investigation Report

104 Fifteenth Avenue  
West Hoxton, NSW

19 March 2021

# Contents

|                                                 |           |
|-------------------------------------------------|-----------|
| <b>Executive Summary</b>                        | <b>5</b>  |
| <b>1. Introduction</b>                          | <b>7</b>  |
| 2.1 Background                                  | 7         |
| 2.2 Objectives                                  | 7         |
| 2.3 Scope of Works                              | 8         |
| <b>2. Site Conditions and Local Environment</b> | <b>11</b> |
| 2.1 Site Identification                         | 11        |
| 2.2 Site Description                            | 11        |
| 2.3 Surrounding Land Use                        | 12        |
| 2.4 Topography                                  | 13        |
| 2.5 Geology and Hydrogeology                    | 13        |
| 2.6 Acid Sulfate Soils                          | 14        |
| 2.7 Registered Bore Search                      | 14        |
| 2.8 Potentially Sensitive Receptors             | 14        |
| <b>3. Review of Historical Records</b>          | <b>16</b> |
| 3.1 Historical Information Sources              | 16        |
| 3.2 Certificate of Title                        | 17        |
| 3.3 Historical Aerial Photographs               | 18        |
| 3.4 Heritage Significance                       | 18        |
| 3.5 Contaminated Land Record                    | 19        |
| 3.6 Planning Certificate                        | 19        |
| <b>4. Sampling and Analysis Methodology</b>     | <b>20</b> |
| 4.1 Sampling Plan                               | 20        |
| 4.2 Soil Investigation Methodology              | 20        |
| 4.3 Analytical Plan                             | 22        |
| <b>5. Site Assessment Criteria</b>              | <b>24</b> |
| 5.1 Soil Assessment Guidelines                  | 24        |
| 5.2 Soil Assessment Criteria                    | 24        |
| 5.2.1 Adopted Soil Assessment Criteria          | 26        |
| 5.3 Aesthetic Criteria                          | 26        |
| 5.4 Structural Guidelines                       | 27        |
| <b>6. Results</b>                               | <b>28</b> |

|                                                        |           |
|--------------------------------------------------------|-----------|
| <b>6.1 Sub-Surface Conditions</b>                      | <b>28</b> |
| <b>6.2 Soil Analytical Results</b>                     | <b>28</b> |
| <b>7. Conclusions and Recommendations</b>              | <b>30</b> |
| <b>7.1 Conclusions</b>                                 | <b>30</b> |
| <b>7.2 Recommendations</b>                             | <b>31</b> |
| <b>8. References</b>                                   | <b>32</b> |
| <b>9. Limitation Statement</b>                         | <b>33</b> |
| <b>Appendix A – Section 10.7 Certificate</b>           | <b>40</b> |
| <b>Appendix B – Registered Groundwater Bore Search</b> | <b>41</b> |
| <b>Appendix C – Certificates of Title</b>              | <b>42</b> |
| <b>Appendix D – Historical Aerial Photographs</b>      | <b>43</b> |
| <b>Appendix E – NSW EPA Search Results</b>             | <b>44</b> |
| <b>Appendix F – Laboratory Reports</b>                 | <b>45</b> |

## **Figures**

|                                    |    |
|------------------------------------|----|
| Figure 1 – Site Location Plan      | 35 |
| Figure 2 – Site Layout             | 36 |
| Figure 3 – Soil Sampling Locations | 37 |

## **Tables**

### **Main Text**

|                                                        |    |
|--------------------------------------------------------|----|
| Table 1 – Site Identification                          | 11 |
| Table 2 – Site Description                             | 11 |
| Table 3 – Historical and Background Information Search | 16 |
| Table 4 – Summary of Owners for Lot 2 in DP 1074727    | 17 |
| Table 5 – Summary of Historical Aerial Photographs     | 18 |
| Table 6 – Soil Investigation Methodology               | 20 |
| Attached: Table A – Soil Analytical Results            |    |

## Distribution of Copies

| Revision | Copy no | Quantity | Issued to                                 |
|----------|---------|----------|-------------------------------------------|
| 1        | 1       | 1 Copy   | William Paterson: Paterson and Associates |
|          |         |          |                                           |
|          |         |          |                                           |
|          |         |          |                                           |

|                              |                                                  |
|------------------------------|--------------------------------------------------|
| <b>Printed:</b>              | 19 March 2021                                    |
| <b>Last saved:</b>           | 19 March 2021 09:24 am                           |
| <b>File name:</b>            | LG1948.01 DESI Rpt 19-03-21.docx                 |
| <b>Name of organisation:</b> | DalCo & Covo Positino                            |
| <b>Name of project:</b>      | 104 Fifteenth Avenue, West Hoxton, NSW           |
| <b>Name of document:</b>     | Detailed Environmental Site Investigation Report |
| <b>Document version:</b>     | Final                                            |
| <b>Project number:</b>       | LG1948.01                                        |

## Executive Summary

### Background

Land & Groundwater Consulting Pty Ltd (LG) has been engaged by DalCo (NSW) Pty Limited and Covo Positino Pty Limited to undertake a Detailed Environmental Site Investigation (DESI) at the site known as 104 Fifteenth Avenue, West Hoxton, NSW.

LG understands that DalCo (NSW) Pty Limited and Covo Positino Pty Limited wishes to develop the site and assess its environmental condition prior to development. It is understood that development of the site will comprise the demolition of the existing 2-storey brick residential building and storage/workshop/stable sheds and construction of a service station (including fuel bowser stations and underground storage tanks), McDonalds fast food store, childcare centre and parking spaces.

The sampling plan included the assessment of 28 locations across the site. Samples collected were analysed for a combination of total recoverable hydrocarbons (TRHs); benzene, toluene, ethylbenzene and xylene (BTEX); polycyclic aromatic hydrocarbons (PAHs); organochlorine pesticides (OCPs); organophosphate pesticides (OPPs); polychlorinated biphenyl (PCBs); metals (arsenic, cadmium, copper, chromium, lead, nickel, mercury and zinc) and asbestos identification.

### Conclusions

Based on the findings of this DESI the following conclusions are provided:

- Prior to the current layout the site appeared to have comprised mainly vacant crown land between 1820's and 1910's. Residential structures are likely to have occupied the site since sometime between 1920's and 1940's. Therefore, it is estimated that the site has been in its current residential configurations for over 70 years. No significant changes were observed on the site during this period;
- Laboratory analytical results indicated that the fill materials and natural soils sampled from within the footprint of the proposed development area and analysed did not contain concentrations of TRHs, BTEX, PAHs, OCPs, OPPs, PCBs, heavy metals and asbestos that were greater than the HIL A and EIL A land use criteria (Residential A), at the time tested.
- Asbestos fibres were detected above the HIL A in the following samples:
  - Amosite fibrous mass (approximately 20 x 10 x 4 mm) in soil sample BH5/0.1-0.3, collected within the fill material at Borehole 5; and

LAND & GROUNDWATER CONSULTING PTY LTD

- Chrysotile cement sheet fragments (approximately 10 x 6 x 2 mm) in soil sample BH6/0.1-0.3, collected within the fill material at Borehole 6.
- Bonded cement fragments collected from surfaces across the site for laboratory verification analysis confirmed the presence of amosite and chrysotile asbestos in fibrous cement samples PAC1 and PAC2. Therefore, these can be referred as ACMs.
- Based on the above findings the site subject to this DESI is likely to be suitable for the proposed land use, consistent with an R2 Low Density Residential zoning, provided the asbestos fragments and impacted soils identified are remediated in-situ or classified, removed and disposed offsite to a licensed facility, and the remaining excavation/voids are validated, accordingly.

### **Recommendations**

Based on the conclusions above the following recommendations are provided:

- Remediation and validation works be undertaken, in order to safely remove asbestos hotspots (including bonded ACM fragments identified) and demonstrate that the remaining excavations and excavated soils meet NSW EPA requirements for the proposed land use.

# 1. Introduction

## 2.1 Background

Land & Groundwater Consulting Pty Ltd (LG) has been engaged by DalCo (NSW) Pty Limited and Covo Positino Pty Limited (DalCo & Covo Positino) to undertake a Detailed Environmental Site Investigation (DESI) at the property identified as Lot 2 in Deposited Plan (DP) 1074727, located at 104 Fifteenth Avenue, West Hoxton, NSW (the site). The site location plan is shown in **Figure 1** attached.

LG understands that a development application (DA) has been submitted to Liverpool City Council (Council) comprising demolition of the existing 2-storey brick residential building and storage/workshop/stable sheds and construction of a service station (including fuel bowser stations and underground storage tanks), McDonalds fast food store, childcare centre and parking spaces. This DESI provides a summary of the historical land uses and assesses the potential for soil contamination to be present.

The Section 149 Certificate for the site obtained from Council indicates that the site is zoned R2 Low Density Residential. A copy of the certificate is presented in **Appendix A**.

The DESI was undertaken with respect to the staged investigation approach outlined in *State Environmental Planning Policy No. 55 - Remediation of Land* (SEPP 55 - Ref 1) and the National Environment Protection Council (NEPC) *National Environment Protection (Assessment of Site Contamination) Measure 1999* (amended 2013) (NEPC, 2013 - Ref 2).

This report was prepared in general accordance the NSW Office of Environment and Heritage (OEH) "*Guidelines for Consultants Reporting on Contaminated Sites*" (2011).

## 2.2 Objectives

The specific objectives of the DESI were to:

- Provide an assessment of potential soil contamination resulting from onsite or offsite sources, during past or present activities;
- Assess the site suitability for Residential A land use; and
- Assess the need for further investigations and/or remedial action, if any.

## 2.3 Scope of Works

The following works were undertaken to meet the objective described above:

- Completed searches and review of historical information relating to the site from the following sources:
  - Current certificate of title;
  - Historical certificate of title;
  - Local Council records, including current planning and/or zoning certificates, previous land uses;
  - NSW OEH administered environment management and contaminated land registers;
  - Heritage Council of NSW online database of items of heritage significance;
  - Available historical aerial photographs;
  - Registered groundwater bore database for groundwater bores in the vicinity of the site; and
  - Available geological and hydrogeological information.
- Prepared a sampling and analytical plan outlining the sampling and assessment strategy for the DESI;
- Conducted dial before you dig search to assess for the presence of underground services and pipework;
- Undertook soil field investigations which included the following works:
  - Given that the site covers an area of approximately 18,230 m<sup>2</sup> (1.823 ha), a total of 28 soil sampling locations were investigated in accordance with the Minimum Sampling Points Required for Site Characterisation, published under the NSW EPA (1995) "*Sampling Design Guidelines*". These were placed in a triangular grid pattern across the site with allowance for structural obstacles (e.g. existing 2-storey brick residential building and storage/workshop/stable sheds);

- Sampling of 27 boreholes systematically located across the site, using drilling machine and 1 stockpile sample;
- Collection of representative samples of fill materials (i.e. 0.0 to 0.3 m bgs) and natural soils (i.e. 0.5 m bgs) at each borehole location and/or at changes in lithology or where visual and/or olfactory indicators of contamination were observed;
- Completion of detailed environmental logging of each borehole for evidence of contamination (e.g. by reference to staining, odour, presence of materials of anthropogenic materials), fill materials and soil properties;
- Submission of 13 samples (including 1 replicate) of fill materials to a National Association of Testing Authorities (NATA) accredited laboratory for variable analysis for the following suite of analytes:
  - o Total Recoverable Hydrocarbons (TRHs);
  - o Benzene, Toluene, Ethylbenzene and Xylene (BTEX);
  - o Polycyclic Aromatic Hydrocarbons (PAHs);
  - o Organochlorine Pesticides (OCPs);
  - o Organophosphate Pesticides (OPPs);
  - o Polychlorinated Biphenyls (PCBs);
  - o Heavy metals (arsenic, cadmium, copper, chromium, lead, nickel, mercury and zinc); and
  - o Asbestos identification.
- Submission of 9 samples (including 1 replicate) of fill materials to a NATA accredited laboratory for variable analysis for the following suite of analytes:
  - o TRHs;
  - o BTEX;
  - o PAHs;
  - o Heavy metals (arsenic, cadmium, copper, chromium, lead, nickel, mercury and zinc); and

- Asbestos identification.
- Submission of 8 samples of fill materials to a NATA accredited laboratory for variable analysis for the following suite of analytes:
  - TRHs;
  - BTEX;
  - Heavy metals (arsenic, cadmium, copper, chromium, lead, nickel, mercury and zinc); and
  - Asbestos identification.
- Submission of 2 samples of fibrous cement fragments to a NATA accredited laboratory for analysis of asbestos identification.
- Prepared and submitted this DESI report including the following:
  - Desk study findings and findings of the subsurface investigation including, an outline of fieldwork undertaken, site conditions encountered, field observations, environmental and borehole logs.
  - A conceptual site model, data quality objectives, investigation methodologies and analytical laboratory results.
  - A general evaluation of the feasibility of the proposed development based on the potential environmental constraints identified.
  - Recommendations of the management options and/or remediation actions required to address the contamination impacts identified (if any).

## 2. Site Conditions and Local Environment

### 2.1 Site Identification

The site is located in West Hoxton, NSW, approximately 47 km southwest of the Sydney central business district (CBD). The site layout is presented in **Figure 2**. Details relating to the site are presented in **Table 1**.

**Table 1 – Site Identification**

| Site Details          | Description                                  |
|-----------------------|----------------------------------------------|
| Address               | 104 Fifteenth Avenue, West Hoxton, NSW, 2171 |
| Lot/DP                | Lot 2 in DP 1074727                          |
| Local Government Area | Liverpool City Council                       |
| Parish and County     | Parish of Cabramatta, County of Cumberland   |
| Site Area             | Approximately 18,230 m <sup>2</sup>          |
| Registered Owner      | Angela Carmel Froio                          |
| Zoning                | R2 Low Density Residential                   |
| Current Land Use      | Residential                                  |

### 2.2 Site Description

A site inspection was completed by LG on 28 January 2020 and the observations are detailed in **Table 2**. **Figure 2** shows an approximate layout of the site.

**Table 2 – Site Description**

| Category          | Observation                                                                                                                                                                                                                                                                                                |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Weather Condition | Sunny and humid, approximately 35°C                                                                                                                                                                                                                                                                        |
| Current Use       | Lot 2 in DP 1074727 comprised of a semi-trapezoidal shape residential block covering a total area of approximately 18,230 m <sup>2</sup> and was bound by Fifteenth Avenue to the north, Second Avenue to the east, a transmission line easement and rural residential lands beyond to the south and west. |

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Site Features    | <p>At the time of inspection, the following site features were observed and noted:</p> <ul style="list-style-type: none"> <li>▪ The surface topography sloped down from southwest to northeast;</li> <li>▪ The site comprised of a semi trapezoidal block of land with an existing 2-storey brick residential building and storage/workshop/stable sheds;</li> <li>▪ An asphalt driveway was observed at the entrance to the property and main residence;</li> <li>▪ Gravel surfaces were noted within the eastern portions of the site, adjacent to the primary residence and storage shed;</li> <li>▪ Grassed garden areas were noted at the front and back of the property;</li> <li>▪ No signs of oil spill or stains were noted on the floor surfaces across the site;</li> <li>▪ No rubbish or domestic waste was observed across the site;</li> <li>▪ There were no active pipelines;</li> <li>▪ There were no above ground tanks (ASTs) or visible evidence of underground storage tanks (USTs) or systems which should cause air emissions such as laboratories, incinerators, surface impoundment and land treatment areas; and</li> <li>▪ Asbestos containing materials (ACMs) in the form of bonded fibrous cement fragments were observed on the surfaces across the central portion of the site during the inspection.</li> </ul> |
| Surface Covering | <p>The site surface can be summarised as follows:</p> <ul style="list-style-type: none"> <li>▪ Approx. 90% of the site was covered with grass and exposed soils.</li> <li>▪ Approx. 5% was covered with surface gravel.</li> <li>▪ Approx. 3% was covered with asphalt.</li> <li>▪ Approx. 2% was covered with concrete and pavement.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## 2.3 Surrounding Land Use

The surrounding land use is summarised as follows:

- The northern side of the site is bound by Fifteenth Avenue;
- The site is bound to the east by Second Avenue;
- The site is bound to the south by a transmission line easement and a rural residential property beyond; and
- The western side of the site is bound a transmission line easement and a rural residential property beyond, occupied by the Australian Christian Fellowship church.

## **2.4 Topography**

The ground surface at the site slopes from southwest to northeast. The ground surface varies in elevations from approximately 57.5 m (Australian Height Datum) AHD in the vicinity of the north eastern boundary of the site to approximately 64.0 m AHD in the vicinity of the south western boundary of the site, respectively.

## **2.5 Geology and Hydrogeology**

Geological information obtained from the Penrith 1:100,000 Geological Series Sheet 9035 Edition 1, dated 1991, by the Geological Survey of New South Wales, Department of Mineral Resources, indicates the site is located within an area underlain by Triassic Age Bringelly Shale of the Wianamatta Group, denoted as Rwb. The Bringelly Shale is described as shale, carbonaceous claystone, claystone, laminate, fine to medium-grained lithic sandstone, rare coal and tuff.

Bringelly Shale typically weathers to low permeability clays and it was anticipated that this clay would be present at the site.

Hydrogeological conditions at the site are likely to be defined mainly by a shallow aquifer system. This shallow system is likely to be a transient perched aquifer that develops after heavy rainfall and lies above the underlying shale bedrock. It is likely that the shallow aquifer is discontinuous and will be favourable in higher permeability areas, such as the areas of fill and easements (i.e. stormwater easement). The groundwater in this system is unlikely to pose an off-site migration risk due to its transient nature and the most likely contaminant source being from intermittent spills/leaks from near-surface infrastructure. Groundwater within the weathered shale lithology would be anticipated to be saline, low in permeability and not suitable for domestic, agricultural or irrigation uses.

## **2.6 Acid Sulfate Soils**

A review of the acid sulfate soil (ASS) risk maps prepared by Department of Land and Water Conservation (1997)<sup>1</sup> for Prospect-Parramatta indicates the site is located in an area designated as "No Known Occurrence". Therefore, acid sulfate soils are not known or expected to occur in these areas. This map defines that land management activities are not likely to be affected by acid sulfate soil materials.

No indicators of acid sulfate soils were observed during the site inspection completed on 28 January 2020.

## **2.7 Registered Bore Search**

A review of groundwater bore records available on the NSW Office of Water<sup>2</sup> (NOW) online database was undertaken on 28 January 2020. The search was limited to registered bores located within a radius of approximately 500 m of the site.

The search did not identify the presence registered bores within a radius of approximately 500 m of the site. A map showing bore search area is included in **Appendix B**.

## **2.8 Potentially Sensitive Receptors**

Identified sensitive receptors of contamination potentially sourced from the site are as follows:

- Shallow groundwater present in the fill materials (if any) and sandy natural soils that may be present on the site and deeper groundwater present in the underlying sandstone bedrock;
- Surrounding industrial and/or commercial land uses and residential dwellings, which include access to soils for construction, gardening or potentially growing vegetables;

---

<sup>1</sup> Department of Land and Water Conservation, (1997), 1:25,000 Acid Sulfate Soil Risk Map (Series 9130N3, Edition 2).

<sup>2</sup> <http://allwaterdata.water.nsw.gov.au/water.stm>

- Parks, recreational open space including the parks and playing fields within the vicinity of the site;
- Fauna and flora reserves in the area within the vicinity of the site;
- Onsite workers: Persons who frequently work at or visit the site who may potentially be exposed to contaminated soils and water, particularly in unsealed areas of the site;
- Sub-surface maintenance workers: Persons, such as workers or visitors to the site or surrounding properties who have access to soils or groundwater; and
- Surface water bodies: The nearest surface water body is Hopkins Creek located approximately 352 m south of the site.

## 3. Review of Historical Records

### 3.1 Historical Information Sources

The sources from which historical site information has been obtained are summarised in **Table 3**.

**Table 3 – Historical and Background Information Search**

| Source                        | Location of Source                                                                                                          | Years / Date                                                                          | Comments                                                                   |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Current and Historical Titles | NSW Land and Property Information Division                                                                                  | Titles searched 28 November 2018 and 13 February 2020                                 | Current and Historical Title Documents are included in <b>Appendix C</b> . |
| Aerial Photographs            | NSW Land and Property Information Division                                                                                  | Register searched 13 February 2020<br><br>Years 1965, 1978, 2001, 2007, 2015 and 2018 | Aerial photographs extracts included in <b>Appendix D</b> .                |
| Heritage Significance         | <a href="http://www.environment.nsw.gov.au/heritage">http://www.environment.nsw.gov.au/heritage</a>                         | Register searched 13 February 2020                                                    | All relevant notices detailed in <b>Section 3.4</b> of this report.        |
| Contaminated Land Register    | <a href="http://www.epa.nsw.gov.au/prclmapp/searchregister.aspx">http://www.epa.nsw.gov.au/prclmapp/searchregister.aspx</a> | Register searched 13 February 2020                                                    | All relevant notices detailed in <b>Section 3.5</b> of this report.        |
| Planning Certificate          | Section 10.7 Certificate at Liverpool City Council                                                                          | Register searched 9 February 2020                                                     | All relevant notices detailed in <b>Section 3.6</b> of this report.        |

### 3.2 Certificate of Title

A historical land titles search was conducted through NSW Land and Property Information Division. Copies of relevant documents resulting from this search are presented in **Appendix C**. The site comprises the historical titles summarised in **Table 4**.

**Table 4 – Summary of Owners for Lot 2 in DP 1074727**

| Date of Acquisition | Registered Proprietor                         | Reference to Title at Acquisition and Sale |
|---------------------|-----------------------------------------------|--------------------------------------------|
| 14/01/1818          | Thomas Sterrop Amos by Crown Grant            | Vol 1101 Fol 115                           |
| 14/05/1915          | Edward Charles Hutton (Telephone Lineman)     | Vol 2574 Fol 72                            |
| 24/06/1921          | William Henry Silk (Blacksmith)               | Vol 2574 Fol 72                            |
| 19/05/1937          | Lucy Silk (Widow)                             | Vol 2574 Fol 72                            |
| 14/07/1939          | Walter Israel Taylor (Grader Driver)          | Vol 2574 Fol 72                            |
| 15/06/1962          | Cosimo Gismondo (Railway Employee)            | Vol 2574 Fol 72                            |
| 06/01/1965          | Electricity Commission of New South Wales     | Vol 2574 Fol 72                            |
| 02/12/2004          | Land Release by Electricity Commission of NSW | Fols 443 to 445/2475                       |
| 25/10/2018          | Angela Carmel Froio                           | Fol 2/1074727 Ed 2                         |

### 3.3 Historical Aerial Photographs

Aerial photographs of the site for the years 2001, 2007, 2015 and 2018 were sourced from NSW Land and Property Information Division. An interpretation of the photographs is provided in **Table 5** below. Aerial photograph extract images are presented in **Appendix D**.

**Table 5 – Summary of Historical Aerial Photographs**

| Aerial Photograph       | Description of Site and Surrounding Area                                                                                                                                                                                                                                                                                                                             |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1965<br>Black and White | The 1965 photograph indicates that the site was already developed. A residential building and sheds were observed to occupy the site.<br>Surrounding Land Use: Several main roads were observed around the local area, including what are now Fifteenth Avenue and Second Avenue. Residential properties were observed further north and east of the site.           |
| 1978<br>Black and White | The 1978 photograph indicates that a new brick residential building was constructed within the northern portion of the site, approximately between 1975 and 1978. The former residential building to the south was also demolished during this period.<br>Surrounding Land Use: New residential properties were observed east of the site since the 1978 photograph. |
| 2001<br>Colour          | The 2001 photograph indicates that the site was already developed. A residential building was observed to occupy the site.<br>Surrounding Land Use: New residential developments were observed east of the site.                                                                                                                                                     |
| 2007<br>Colour          | No significant changes were observed since the 2001 photograph.<br>Surrounding Land Use: No significant changes were observed since the 2001 photograph.                                                                                                                                                                                                             |
| 2015<br>Colour          | No significant changes were observed since the 2007 photograph.<br>Surrounding Land Use: No significant changes were observed since the 2007 photograph, with the exception of clearing sub-division works observed further north of the site.                                                                                                                       |
| 2018<br>Colour          | No significant changes were observed since the 2015 photograph.<br>Surrounding Land Use: No significant changes were observed since the 2015 photograph, with the exception of new residential dwellings constructed further north of the site.                                                                                                                      |

### 3.4 Heritage Significance

Information relating to the site was accessed online at the Heritage Council of NSW webpage on 28 January 2020. The site is not listed as being of significance.

### 3.5 Contaminated Land Record

Search of the NSW EPA's public register under the Protection of the Environment Operations Act 1997 (POEO Act) was under taken (**Appendix E**). The search for the site identified there were:

- No prevention, clean-up or prohibition notices; and
- No transfer, variation, suspension, surrender or revocation of an environmental protection licence.

A search was also conducted through the EPA's public contaminated land register (**Appendix E**). The search did not identify any current or previous records of notices by the EPA, or notification to the EPA under Section 60 of the Contaminated Land Management Act 1997 (CLM Act.), in relation to the site or immediately surrounding land.

### 3.6 Planning Certificate

A Section 10.7 Certificate for the site was obtained from Council on 9 February 2020. The certificate is presented in **Appendix A**. The Section 10.7 Certificate No. 3761, which is applicable to Lot 2 in DP 1074727, indicate that there are no matters arising under Section 59(2) of the *Contaminated Land Management Act 1997* (Act), as follows:

- The land **is NOT** significantly contaminated land (or part of the land) within the meaning of the Act at the date when the certificates were issued.
- The land **is NOT** the subject to a management order within the meaning of the Act at the date when the certificates were issued.
- The land **is NOT** the subject of an approval voluntary management proposal within the meaning of the Act at the date when the certificates were issued.
- The land **is NOT** the subject of an ongoing maintenance order within the meaning of the Act at the date when the certificates were issued.
- The land **is NOT** the subject of a site audit statement within the meaning of the Act at the date when the certificates were issued.

## 4. Sampling and Analysis Methodology

### 4.1 Sampling Plan

The rationale to the sampling plan adopted for the DESI was to:

- The site covers an area of approximately 18,230 m<sup>2</sup> (1.823 hectares). Therefore, a total of 28 soil sampling locations were investigated in accordance with the Minimum Sampling Points Required for Site Characterisation, published under the NSW EPA (1995) "*Sampling Design Guidelines*". These were located in a triangular grid pattern across the site with allowance for structural obstacles (e.g. existing residential building and sheds/stables). Soil sampling location are shown in **Figure 3**;
- Provide adequate coverage of the potential soil contamination (including hydrocarbons, pesticides, heavy metals and asbestos) with respect to past and present potentially contaminating activities at the site;
- Ensure that an appropriate depth was achieved for effective characterisation of vertical extent of fill materials and natural soils; and
- Ensure that minimal disturbance of soil samples was achieved which may have caused loss of volatile compounds.

### 4.2 Soil Investigation Methodology

The soil investigation program, conducted on 28 January 2020, was undertaken by field personnel that are trained and experienced in collecting environmental samples. The soil sampling methods used in the assessment program followed the procedures set out below and were conducted with reference to the relevant guidelines endorsed by NSW EPA. The sampling methodology adopted for the soil investigations conducted is detailed in **Table 6**.

**Table 6 – Soil Investigation Methodology**

| Protocol                | Description                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Service Location</b> | A dial before you dig search was conducted to determine the presence of services at the site.                                                                                                                                                                                                                                                                       |
| <b>Drilling</b>         | A Dando Terrier rig with push tube and auguring capabilities, operated by BG Drilling Pty Ltd was used to drill through the fill materials and natural soils at 27 locations (BH1 to BH27), to a maximum depth of 1.0 m bgs, targeting a depth of at least 0.5 m below natural soils.<br>A push tube was used to drill through the fill materials and natural soils |

LAND & GROUNDWATER CONSULTING PTY LTD

LG1948.01 DESI Rpt 19-03-21.docx

| Protocol                                       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                | to sample with minimal disturbance at the 27 locations. A grab sample was collected from a stockpile of building rubble material.                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Field Logging</b>                           | Logging of the boreholes was conducted in general accordance with the Unified Soil Classification System. The soil cores obtained from gouge auger methods were logged and the following information was recorded in the field: soil type, colour, grain size, grading, inclusions, moisture conditions, staining and observation of any anthropogenic material (i.e., odours, waste materials). Descriptions were recorded on LG's standard electronic field logs for uniformity in descriptions, presentation and to aid in any future interpretations. |
| <b>Sampling Intervals</b>                      | Samples were generally collected from each borehole from the surface between 0.0 – 0.3 m, at 0.5 m bgs, or at changes in stratigraphy, until a nominated depth of 1.0 m bgs was achieved.                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Soil Sampling</b>                           | Samples of the fill materials and natural soils, obtained in disposable polyethelene push tube liners, were collected from the centre of the push tube liner by hand protected by a nitrile glove.<br>New nitrile gloves were used for the collection of each sample. Soil samples were collected in 125 mL jars supplied by the laboratory.                                                                                                                                                                                                              |
| <b>Sample Labelling, Storage and Transport</b> | All samples were clearly labelled with unique sample identification numbers consisting of the date, sample location, depth of sample and sampler's initials.<br>All samples were kept chilled in an ice-filled esky prior to dispatch and during transport to the NATA registered laboratory under chain-of-custody procedures. By prior arrangement with the laboratories, samples were analysed as soon as practicable after receipt.                                                                                                                   |
| <b>Borehole Reinstatement</b>                  | After the drilling and soil sampling activities, the remainder of the soil cuttings were backfilled into each respective borehole in reverse order (i.e. final materials removed were the first to be re-instated into borehole).                                                                                                                                                                                                                                                                                                                         |
| <b>Decontamination</b>                         | Single-use polyethylene push tubes were used when each borehole was advanced and a clean pair of disposable gloves was worn to collect each sample. During drilling, the push tube cutting shoe and the solid flight augers and the coring equipment were re-used. The cutting shoe was decontaminated by hand between each borehole location by scrubbing with an aqueous solution of Decon 90 followed by a rinse in potable water. The augers were sprayed with an aqueous solution of Decon 90 followed by a rinse in potable water.                  |

### **4.3 Analytical Plan**

The following sample analysis schedule was adopted for the DESI:

- Submission of 13 samples (including 1 replicate sample) of fill materials to a NATA accredited laboratory for variable analysis for the following suite of analytes:
  - TPHs;
  - BTEX;
  - PAHs;
  - OCPs;
  - OPPs;
  - PCBs;
  - Heavy metals (arsenic, cadmium, copper, chromium, lead, nickel, mercury and zinc); and
  - Asbestos identification.
- Submission of 9 samples (including 1 replicate sample) of fill materials to a NATA accredited laboratory for variable analysis for the following suite of analytes:
  - TRHs;
  - BTEX;
  - PAHs;
  - Heavy metals (arsenic, cadmium, copper, chromium, lead, nickel, mercury and zinc); and
  - Asbestos identification.
- Submission of 8 samples of natural soils to a NATA accredited laboratory for variable analysis for the following suite of analytes:
  - TRHs;
  - BTEX;

- Heavy metals (arsenic, cadmium, copper, chromium, lead, nickel, mercury and zinc); and
- Asbestos identification.
- Submission of 2 samples of fibrous cement fragments to a NATA accredited laboratory for analysis of asbestos identification.

All samples were submitted to SGS Laboratory (SGS) located at Alexandria, Sydney. SGS is a NATA registered laboratory for the analysis required.

## 5. Site Assessment Criteria

### 5.1 Soil Assessment Guidelines

The current assessment criteria used in NSW to assess soil and groundwater quality are based on the following guidelines:

- NEPM (2013) Schedule B(1) *Guideline on Investigation Levels for Soil and Groundwater, National Environment Protection (Assessment of Site Contamination) Measure 1999 – Amendment 2013*, National Environment Protection Council (NEPC), May 2013;
- NSW DECC (2009) *Guidelines on the Duty to Report Contamination under the Contaminated Land Management Act 1997*;
- NSW EPA (1995) *Sampling Design Guidelines*; and
- NSW EPA (2017) *Guidelines for the NSW Site Auditor Scheme (3<sup>rd</sup> Edition)*.

Application of these guidelines to this DESI report is briefly described below.

### 5.2 Soil Assessment Criteria

The guidelines to evaluate soil analytical results currently applied in NSW, as listed above, presents a range of Health-Based Soil Investigation Levels (HILs), Provisional Phytotoxicity-Based Investigation Levels (PILs), Ecological Investigation Levels (EILs), sensitive land use thresholds and expected background concentration ranges for urban redevelopment sites in NSW. Application of these guidelines are briefly described below.

#### HILs

The HILs described by NEPC (2013) guidelines are based on the *Australian exposure factor guidance* (enHealth 2012). HILs are scientifically based, generic assessment criteria designed to be used in the first stage (Tier 1 or 'screening') of an assessment of potential risks to human health from chronic exposure to contaminants. They are intentionally conservative and are based on a reasonable worst-case scenario for four generic land use settings:

- HIL A - residential with garden/accessible soil (home grown produce <10% fruit and vegetable intake, (no poultry), also includes children's day care centres, preschools and primary schools;

LAND & GROUNDWATER CONSULTING PTY LTD

- HIL B - residential with minimal opportunities for soil access includes dwellings with fully and permanently paved yard space such as high-rise buildings and flats;
- HIL C - public open space such as parks, playgrounds, playing fields (e.g. ovals), secondary schools and footpaths. It does not include undeveloped public open space (such as urban bushland and reserves) which should be subject to a site-specific assessment where appropriate; and
- HIL D - commercial/industrial such as shops, offices, factories and industrial sites.

SILs specifically for the lower volatility aliphatic and aromatic petroleum hydrocarbon components are also provided in NEPC (2013) for the various land use scenarios described above.

The NSW EPA endorsed contaminated site assessment process also stipulates that the impact of contaminants on ground and surface water, potential degradation of building structures and affects of chemical mixtures need to be considered.

#### **PILs & EILs**

The PILs (NSW DEC, 2006) and EILs (NEPC, 2013) have been devised for the protection of plant health, and are designed to be applied as single number criteria indicative of environmental effect. The PILs have been developed for application to sandy loam soils with a pH of 6 to 8. As such, their use has significant limitations since phytotoxicity depends on soil and species parameters in ways that are not fully understood and they are intended for use as a screening guide only. The NSW EPA decision process for assessing urban redevelopment sites stipulates that the PILs need to be considered on sites used for either residential purposes, or land uses including parks, recreational open space and secondary schools. PILs are not required to be adopted on land used for commercial/industrial purposes.

### 5.2.1 Adopted Soil Assessment Criteria

Given that the site is intended to be used for residential purposes, and in accordance with the decision process for assessment of urban redevelopment sites (EPA 2017), concentrations of contaminants in soils across the site were compared against the published investigation levels sourced from the following:

- NEPM (2013) Health-based Investigation Levels for Residential with direct access to soils (HIL-A);
- NEPM (2013) Health-based Screening Levels (HSLs) for soil vapour intrusion in sandy soils for Residential with direct access to soils land use (HSL-A); and
- NEPM (2013) Ecological Screening/Investigation Levels for Urban Residential/Public Open Space (ESL/EIL).

### 5.3 Aesthetic Criteria

Consistent with NSW EPA (2017), aesthetic issues were required to be considered for commercial land use scenarios. Also, the 2013 NEPM 'Schedule B(1) Guideline on the Investigation Levels for Soil and Groundwater' advises that:

*'There are no numeric Aesthetic Guidelines but the fundamental principle is that the soils should not be discoloured, malodorous (including when dug over or wet) nor of abnormal consistency. The natural state of the soil should be considered.'*

Discoloured soils are not considered by the NSW EPA as a quality of the environment that needs to be protected on a residential site. Given these NEPM and NSW EPA requirements, the aesthetic criteria of relevance to the site in its present condition are considered to be:

- No malodorous materials exposed at ground surface;
- No malodorous gases emanating from the ground; and
- No floating product to remain on groundwater at the site.

## 5.4 Structural Guidelines

The 2013 NEPM 'Schedule B(1) Guideline on the Investigation Levels for Soil and Groundwater' advises that:

*'For some substances such as phenol and sulphates, their impact on structures (effect on PVC piping and cement, respectively) may override the health and environmental considerations. Guidelines for protection of structures in the built environment should be set for a small number of contaminants where there is a concern. A structural guideline of 2000 mg/kg is set for sulphate in soil'*

The available information indicates there should be a low risk of significant structural issues for the site as a result of possible contaminants in the ground.

## 6. Results

### 6.1 Sub-Surface Conditions

Description and classification of soils encountered during site investigation are summarised below:

- **Fill:** Fill consisting of silty CLAY, light to dark grey/brown, poorly graded, loose, dry, encountered at depths ranging from 0.2 m to 0.5 m; and
- **Clay:** Light to dark orange, non-plastic to moderate plasticity, stiff, moist, encountered at depths ranging from 0.5 m to 1.0 m.

### 6.2 Soil Analytical Results

On 28 January 2020, a total of 32 samples (BH1/0.1-0.3, BH2/0.1-0.3, BH3/0.1-0.3, BH4/0.1-0.3, BH5/0.1-0.3, BH6/0.1-0.3, BH7/0.1-0.3, BH8/0.1-0.3, BH9/0.1-0.3, BH10/0.1-0.3, BH11/0.1-0.3, BH12/0.1-0.3, BH13/0.1-0.3, BH14/0.1-0.3, BH15/0.1-0.3, BH16/0.1-0.3, BH17/0.1-0.3, BH18/0.1-0.3, BH19/0.1-0.3, BH20/0.1-0.3, BH21/0.1-0.3, BH22/0.1-0.3, BH23/0.1-0.3, BH24/0.1-0.3, BH25/0.1-0.3, BH26/0.1-0.3, BH27/0.1-0.3, SP1/0.1-0.3, PAC1, PAC2, QC1 and QC2) collected were collected from across the site and submitted for laboratory analysis. Borehole and soil sample locations are shown in **Figure 3**, and soil analytical results are summarised in **Table A** attached.

Chain of Custody (COC) documentation and certified laboratory reports are included in **Appendix F**.

The laboratory analytical results indicated that:

- Concentrations of petroleum hydrocarbons (TRH and BTEX) were either below the below the Estimated Quantitation Limit (EQL), HIL A and EIL A criteria in the soil samples analysed.
- Concentrations of heavy metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc) were below the HIL A and EIL A criteria in all soil samples analysed.
- Concentrations of OCPs, OPPs and PCBs were either below the below laboratory EQL, HIL A and EIL A criteria in all soil samples analysed.
- Asbestos fibres were detected above the HIL D in the following samples:

- Triplicate sample (QC1A) of sample TP13/0.0-0.1, collected within the fill material at Testpit 13;
- Triplicate sample (QC5A) of sample SP1/1, collected from Stockpile 1; and
- 
- Asbestos containing materials were identified in the following bonded cement fragments:
  - Chrysotile asbestos was detected in samples PAC1 and PACM2; and
  - The above samples can be referred as ACMs.

## 7. Conclusions and Recommendations

### 7.1 Conclusions

Based on the findings of this DESI the following conclusions are provided:

- Prior to the current layout the site appeared to have comprised mainly vacant crown land between 1820's and 1910's. Residential structures are likely to have occupied the site since sometime between 1920's and 1940's. Therefore, it is estimated that the site has been in its current residential configurations for over 70 years. No significant changes were observed on the site during this period;
- Laboratory analytical results indicated that the fill materials and natural soils sampled from within the footprint of the proposed development area and analysed did not contain concentrations of TRHs, BTEX, PAHs, OCPs, OPPs, PCBs, heavy metals and asbestos that were greater than the HIL A and EIL A land use criteria (Residential A), at the time tested.
- Asbestos fibres were detected above the HIL A in the following samples:
  - Amosite fibrous mass (approximately 20 x 10 x 4 mm) in soil sample BH5/0.1-0.3, collected within the fill material at Borehole 5; and
  - Chrysotile cement sheet fragments (approximately 10 x 6 x 2 mm) in soil sample BH6/0.1-0.3, collected within the fill material at Borehole 6.
- Bonded cement fragments collected from surfaces across the site for laboratory verification analysis confirmed the presence of amosite and chrysotile asbestos in fibrous cement samples PAC1 and PAC2. Therefore, these can be referred as ACMs.
- Based on the above findings the site subject to this DESI is likely to be suitable for the proposed land use, consistent with an R2 Low Density Residential zoning, provided the asbestos fragments and impacted soils identified are remediated in-situ or classified, removed and disposed offsite to a licensed facility, and the remaining excavation/voids are validated, accordingly.

## 7.2 Recommendations

Based on the conclusions above the following recommendations are provided:

- Remediation and validation works be undertaken, in order to safely remove asbestos hotspots (including bonded ACM fragments identified) and demonstrate that the remaining excavations and excavated soils meet NSW EPA requirements for the proposed land use.

These conclusions and recommendations are made within the limitations of the work, which has been undertaken. A statement of these limitations is included in **Section 9** of this report.

## 8. References

Australian and New Zealand Environment Conservation Council and National Health and Medical Research Centre (ANZECC & NHMRC) 1992. *Australian and New Zealand Guidelines for the Assessment and Management of Contaminated Sites* January 1992.

Australian and New Zealand Environment Conservation Council and Agriculture Resource Management Council of Australia and New Zealand (ANZECC/ARMCANZ) 2000. *Australian and New Zealand Guidelines for Fresh and Marine Water Quality*, October 2000.

Department of Mineral Resources (DMR). 1980. A Guide to the Sydney Basin. Ed Chris Herbert and Robin Helby.

Department of Mineral Resources (DMR). 1991. *Penrith 1:100,000 Geological Series Sheet 9035*. DMR, Geological Survey of NSW.

Heritage Council of NSW <http://www.environment.nsw.gov.au/heritage>. Accessed 28 January 2020.

Land and Property Information NSW (LPI) (2001) *Sydney 1:100 000 Topographic Sheet 9130*, 2001.

Land and Property Management Authority (LPMA) Spatial Information Exchange (SIX) <https://six.lands.nsw.gov.au>. Accessed 13 February 2020.

List of Contaminated Sites Notified by NSW EPA  
<http://www.epa.nsw.gov.au/prclmapp/searchregister.aspx>. Accessed 13 February 2020.

NEPC, 2013. *National Environment Protection (Assessment of Site Contamination) Measure (NEPM) – Schedule B*. National Environment Protection Council.

NSW DECC, 2009. *Guidelines on the Duty to Report Contamination under the Contaminated Land Management Act*. NSW Department of Environment and Climate Change.

NSW EPA, 1995. *Contaminated Sites: Sampling Design Guidelines*. NSW Environment Protection Authority.

NSW EPA, 2017. *Guidelines for the NSW Site Auditor Scheme (3<sup>rd</sup> Edition)*.

NSW OEH, 2011. *Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites*. NSW Office of Environment and Heritage.

## 9. Limitation Statement

This DESI report has been prepared for the sole purpose of providing further assessment of the condition of soil at the site in accordance with generally accepted consulting practice. No other warranty or guarantee, expressed or implied is made as to the advice indicated in this report.

This report should not be used for any other purpose without our prior written consent. Accordingly, neither LG nor any member or employee of LG accepts responsibility or liability in any way whatsoever for the use of this report for any purpose other than that for which it has been prepared.

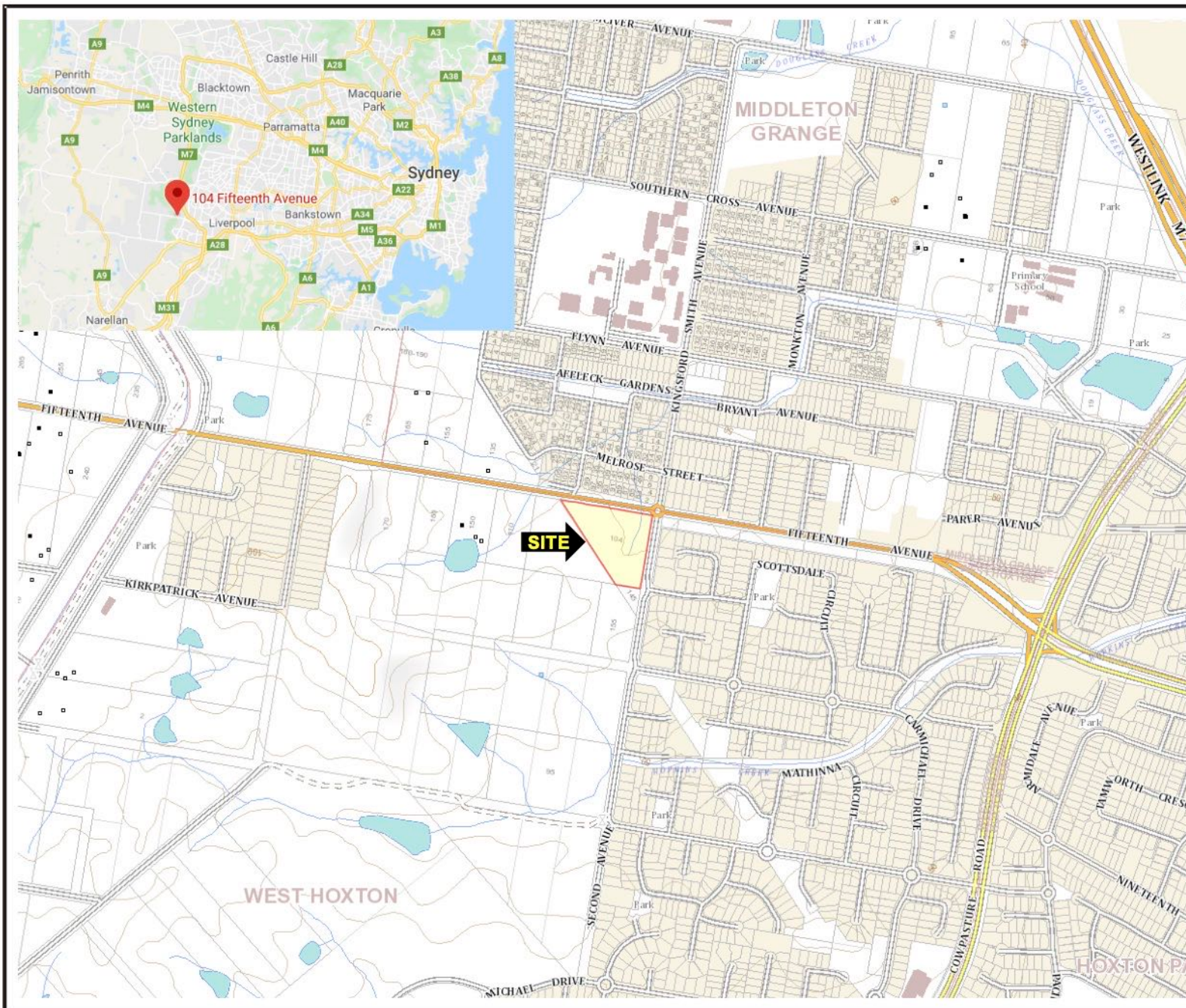
This report should not be released to any other party, in whole or in part, without the express written consent of LG. LG accepts no liability or responsibility whatsoever for or in respect of any use or reliance upon this report by any third party.

LG has relied upon and presumed accurate information provided by DalCo (NSW) Pty Limited and Covo Positino Pty Limited and/or any third party (or absence thereof) in making the assumptions made in this report. Nothing in this report should be taken to imply that LG has verified or audited any of the information supplied to us other than as expressly stated in this report. We have assumed this information to be both adequate and accurate for the purposes of this report.

Where findings, observations and conclusions are based solely upon information provided by DalCo (NSW) Pty Limited and Covo Positino Pty Limited and/or a third party and LG do not accept, to the maximum extent permitted by law, any liability for any losses, claims, costs, expenses, damages (whether in statute, in contract or tort for negligence or otherwise) suffered or incurred by DalCo (NSW) Pty Limited and Covo Positino Pty Limited or any third party as a result of or in connection with LG's reliance on any such the information to the extent that such information is false, misleading or incomplete and LG gives no warranty or guarantee, express or implied as to such findings, observations and conclusions.

If further information becomes available, or additional assumptions need to be made, LG reserves its right to amend any statements or opinions made in this report.

## Figures



SCALE: DRAWN TO SCALE AS SHOWN

Not To Scale

NORTH

LEGEND:

 Site Boundary

Images courtesy of Google Maps & SIX Maps



REV: A  
DATE: 28/01/2020  
DRAWN: GP  
APPROVED: GP  
STATUS: Final  
DWG NO:

CLIENT: DalCo & Covo Positino  
PROJECT: 104 Fifteenth Avenue, West Hoxton, NSW  
PROJECT NUMBER: LG1948.01

TITLE: Site Location Plan  
FIGURE: 1

A4



SCALE: DRAWN TO SCALE AS SHOWN

Not To Scale

NORTH

LEGEND:



Site Boundary

Image courtesy of SIX Maps



REV: A  
DATE: 28/01/2020  
DRAWN: GP  
APPROVED: GP  
STATUS: Final  
DWG NO:

CLIENT: **DalCo & Covo Positino**

PROJECT: **104 Fifteenth Avenue, West Hoxton, NSW**

PROJECT NUMBER: LG1948.01

TITLE:  
**Site Layout**

FIGURE:  
**2**

A4



SCALE: DRAWN TO SCALE AS SHOWN

Not To Scale

NORTH

LEGEND:

- Site Boundary
- ✦ BH1 Borehole Location
- ✦ SP1 Stockpile Location
- ✦ PAC1 Asbestos Containing Material (ACM) Location

Image courtesy of SIX Maps



REV: A  
DATE: 28/01/2020  
DRAWN: GP  
APPROVED: GP  
STATUS: Final  
DWG NO:

CLIENT: **DalCo & Covo Positino**

PROJECT: **104 Fifteenth Avenue, West Hoxton, NSW**

PROJECT NUMBER: LG1948.01

TITLE: **Soil Sampling Locations**

FIGURE: **3**

A4

## Tables



Table A - Soil Analytical Results

| Laboratory ID                                            |             |      |                                   | SE202202.001                                                         | SE202202.002 | SE202202.003 | SE202202.004 | SE202202.005 | SE202202.006 | SE202202.007 |
|----------------------------------------------------------|-------------|------|-----------------------------------|----------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Sample ID                                                |             |      |                                   | BH1/0.1-0.3                                                          | BH2/0.1-0.3  | BH3/0.1-0.3  | BH4/0.1-0.3  | BH5/0.1-0.3  | BH6/0.1-0.3  | BH7/0.1-0.3  |
| Depth (m)                                                |             |      |                                   | 0.1-0.3                                                              | 0.1-0.3      | 0.1-0.3      | 0.1-0.3      | 0.1-0.3      | 0.1-0.3      | 0.1-0.3      |
| Soil Type                                                |             |      |                                   | Silty Clay                                                           | Silty Clay   | Silty Clay   | Silty Clay   | Silty Clay   | Silty Clay   | Silty Clay   |
| Date Sampled                                             |             |      |                                   | 28/1/20                                                              | 28/1/20      | 28/1/20      | 28/1/20      | 28/1/20      | 28/1/20      | 28/1/20      |
| Compounds                                                | Unit        | EQL  | NEPM 2013                         |                                                                      |              |              |              |              |              |              |
|                                                          |             |      | Residential<br>HIL A <sup>1</sup> | Urban<br>Residential and<br>Public Open<br>Space<br>EIL <sup>3</sup> |              |              |              |              |              |              |
| TRHs                                                     |             |      |                                   |                                                                      |              |              |              |              |              |              |
| TRH C6-C9                                                | mg/kg       | 20   | -                                 | -                                                                    | <20          | <20          | <20          | <20          | <20          | <20          |
| TRH C6-C10                                               | mg/kg       | 25   | -                                 | -                                                                    | <25          | <25          | <25          | <25          | <25          | <25          |
| TPH C6-C10 less BTEX (F1)                                | mg/kg       | 25   | 45 <sup>2</sup>                   | 180                                                                  | <25          | <25          | <25          | <25          | <25          | <25          |
| TRH C10-C14                                              | mg/kg       | 20   | -                                 | -                                                                    | <20          | <20          | <20          | <20          | <20          | <20          |
| TRH C15-C28                                              | mg/kg       | 45   | -                                 | -                                                                    | <45          | <45          | <45          | <45          | <45          | <45          |
| TRH C29-C36                                              | mg/kg       | 45   | -                                 | -                                                                    | <45          | <45          | <45          | <45          | <45          | <45          |
| TRH C37-C40                                              | mg/kg       | 100  | -                                 | -                                                                    | <100         | <100         | <100         | <100         | <100         | <100         |
| TRH >C10-C16                                             | mg/kg       | 25   | -                                 | -                                                                    | <25          | <25          | <25          | <25          | <25          | <25          |
| TRH >C10-C16 less Naphthalene (F2)                       | mg/kg       | 25   | 110 <sup>2</sup>                  | -                                                                    | <25          | <25          | <25          | <25          | <25          | <25          |
| TRH >C16-C34 (F3)                                        | mg/kg       | 90   | -                                 | 120                                                                  | <90          | <90          | <90          | <90          | <90          | <90          |
| TRH >C34-C40 (F4)                                        | mg/kg       | 120  | -                                 | 300                                                                  | <120         | <120         | <120         | <120         | <120         | <120         |
| TRH >C10-C36                                             | mg/kg       | 110  | -                                 | 2800                                                                 | <110         | <110         | <110         | <110         | <110         | <110         |
| TRH >C10-C40                                             | mg/kg       | 210  | -                                 | -                                                                    | <210         | <210         | <210         | <210         | <210         | <210         |
| BTEX                                                     |             |      |                                   |                                                                      |              |              |              |              |              |              |
| Benzene                                                  | mg/kg       | 0.1  | 0.5 <sup>2</sup>                  | 50                                                                   | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Ethylbenzene                                             | mg/kg       | 0.1  | 55 <sup>2</sup>                   | 70                                                                   | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Toluene                                                  | mg/kg       | 0.1  | 160 <sup>2</sup>                  | 85                                                                   | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Xylene (m & p)                                           | mg/kg       | 0.2  | -                                 | -                                                                    | <0.2         | <0.2         | <0.2         | <0.2         | <0.2         | 0.4          |
| Xylene (o)                                               | mg/kg       | 0.1  | -                                 | -                                                                    | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | 0.1          |
| Xylene Total                                             | mg/kg       | 0.3  | 40 <sup>2</sup>                   | 105                                                                  | <0.3         | <0.3         | <0.3         | <0.3         | <0.3         | 0.5          |
| PAHs                                                     |             |      |                                   |                                                                      |              |              |              |              |              |              |
| Naphthalene                                              | mg/kg       | 0.1  | 3 <sup>2</sup>                    | 170                                                                  | NA           | NA           | NA           | NA           | NA           | NA           |
| 2-methylnaphthalene                                      | mg/kg       | 0.1  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| 1-methylnaphthalene                                      | mg/kg       | 0.1  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Acenaphthylene                                           | mg/kg       | 0.1  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Acenaphthene                                             | mg/kg       | 0.1  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Fluorene                                                 | mg/kg       | 0.1  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Phenanthrene                                             | mg/kg       | 0.1  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Anthracene                                               | mg/kg       | 0.1  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Fluoranthene                                             | mg/kg       | 0.1  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Pyrene                                                   | mg/kg       | 0.1  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Benzo(a)anthracene                                       | mg/kg       | 0.1  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Chrysene                                                 | mg/kg       | 0.1  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Benzo(b&j)fluoranthene                                   | mg/kg       | 0.1  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Benzo(k)fluoranthene                                     | mg/kg       | 0.1  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Benzo(a)pyrene                                           | mg/kg       | 0.1  | -                                 | 0.7                                                                  | NA           | NA           | NA           | NA           | NA           | NA           |
| Indeno(1,2,3-cd)pyrene                                   | mg/kg       | 0.1  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Dibenzo(a&h)anthracene                                   | mg/kg       | 0.1  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Benzo(ghi)perylene                                       | mg/kg       | 0.1  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Carcinogenic PAHs (as BaP TEQ)-assume results <LOR=0     | TEQ         | 0.1  | 3                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Carcinogenic PAHs (as BaP TEQ)-assume results <LOR=LOR   | TEQ (mg/kg) | 0.1  | 3                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Carcinogenic PAHs (as BaP TEQ)-assume results <LOR=LOR/2 | TEQ (mg/kg) | 0.1  | 3                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| PAHs (Sum of total)                                      | mg/kg       | 1    | 300                               | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| OCPs                                                     |             |      |                                   |                                                                      |              |              |              |              |              |              |
| Hexachlorobenzene (HCB)                                  | mg/kg       | 0.1  | 10                                | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Alpha BHC                                                | mg/kg       | 0.1  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Lindane                                                  | mg/kg       | 0.1  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Heptachlor                                               | mg/kg       | 0.1  | 6                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Aldrin                                                   | mg/kg       | 0.1  | 6                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Dieldrin                                                 | mg/kg       | 0.2  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Beta BHC                                                 | mg/kg       | 0.1  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Delta BHC                                                | mg/kg       | 0.1  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Heptachlor epoxide                                       | mg/kg       | 0.1  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Alpha Endosulfan                                         | mg/kg       | 0.2  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Gamma Chlordane                                          | mg/kg       | 0.1  | 50                                | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Alpha Chlordane                                          | mg/kg       | 0.1  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| trans-Nonachlor                                          | mg/kg       | 0.1  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Endrin                                                   | mg/kg       | 0.2  | 10                                | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| o,p'-DDD                                                 | mg/kg       | 0.1  | 240                               | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| o,p'-DDT                                                 | mg/kg       | 0.1  | -                                 | 180                                                                  | NA           | NA           | NA           | NA           | NA           | NA           |
| o,p'-DDE                                                 | mg/kg       | 0.1  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Beta Endosulfan                                          | mg/kg       | 0.2  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| p,p'-DDD                                                 | mg/kg       | 0.1  | 240                               | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| p,p'-DDT                                                 | mg/kg       | 0.1  | -                                 | 180                                                                  | NA           | NA           | NA           | NA           | NA           | NA           |
| p,p'-DDE                                                 | mg/kg       | 0.1  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Endosulfan sulphate                                      | mg/kg       | 0.1  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Endrin Aldehyde                                          | mg/kg       | 0.1  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Methoxychlor                                             | mg/kg       | 0.1  | 300                               | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Endrin Ketone                                            | mg/kg       | 0.1  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Isodrin                                                  | mg/kg       | 0.1  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Mirex                                                    | mg/kg       | 0.1  | 10                                | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| OPPs                                                     |             |      |                                   |                                                                      |              |              |              |              |              |              |
| Dichlorvos                                               | mg/kg       | 0.5  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Dimethoate                                               | mg/kg       | 0.5  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Diazinon (Dimpylate)                                     | mg/kg       | 0.5  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Fenitrothion                                             | mg/kg       | 0.2  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Malathion                                                | mg/kg       | 0.2  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Chlorpyrifos (Chlorpyrifos Ethyl)                        | mg/kg       | 0.2  | 160                               | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Parathion-ethyl (Parathion)                              | mg/kg       | 0.2  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Bromophos Ethyl                                          | mg/kg       | 0.2  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Methidathion                                             | mg/kg       | 0.5  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Ethion                                                   | mg/kg       | 0.2  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Azinphos-methyl (Guthion)                                | mg/kg       | 0.2  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| PCBs                                                     |             |      |                                   |                                                                      |              |              |              |              |              |              |
| Arochlor 1016                                            | mg/kg       | 0.2  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Arochlor 1221                                            | mg/kg       | 0.2  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Arochlor 1232                                            | mg/kg       | 0.2  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Arochlor 1242                                            | mg/kg       | 0.2  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Arochlor 1248                                            | mg/kg       | 0.2  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Arochlor 1254                                            | mg/kg       | 0.2  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Arochlor 1260                                            | mg/kg       | 0.2  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Arochlor 1262                                            | mg/kg       | 0.2  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Arochlor 1268                                            | mg/kg       | 0.2  | -                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Total PCBs (Arochlors)                                   | mg/kg       | 1    | 1                                 | -                                                                    | NA           | NA           | NA           | NA           | NA           | NA           |
| Metals                                                   |             |      |                                   |                                                                      |              |              |              |              |              |              |
| Arsenic                                                  | mg/kg       | 3    | 100                               | 100                                                                  | 2            | 6            | 7            | 13           | 4            | 6            |
| Cadmium                                                  | mg/kg       | 0.3  | 20                                | -                                                                    | <0.3         | <0.3         | <0.3         | <0.3         | <0.3         | <0.3         |
| Chromium                                                 | mg/kg       | 0.3  | 100                               | 190                                                                  | 6.8          | 14           | 15           | 13           | 8.3          | 16           |
| Copper                                                   | mg/kg       | 0.5  | 6,000                             | 130                                                                  | 17           | 44           | 18           | 19           | 8            | 37           |
| Lead                                                     | mg/kg       | 1    | 300                               | 1100                                                                 | 10           | 29           | 15           | 18           | 18           | 42           |
| Mercury                                                  | mg/kg       | 0.01 | 40                                | -                                                                    | <0.05        | <0.05        | <0.05        | <0.05        | 0.07         | <0.05        |
| Nickel                                                   | mg/kg       | 0.5  | 400                               | 30                                                                   | 3.7          | 18           | 5.3          | 4.1          | 6.5          | 44           |
| Zinc                                                     | mg/kg       | 0.5  | 7,400                             | 180                                                                  | 22           | 48           | 41           | 26           | 22           | 57           |
| Asbestos                                                 |             |      |                                   |                                                                      |              |              |              |              |              |              |
| Asbestos Detected - Fibre Identification in soil         | No unit     | 0.01 | No Detected                       | -                                                                    | No           | No           | No           | No           | Yes          | Yes          |
| Estimated Fibres - Fibre Identification in soil          | %w/w        | 0.01 | 0.01                              | -                                                                    | <0.01        | <0.01        | <0.01        | <0.01        | >0.01        | >0.01        |

NOTES:  
All concentrations are in mg/kg  
(1) - Table 1A(1), HIL Column 1 - Health Based Investigation Levels for Residential with Garden/Accessible Soil - NEHF A (NEPC, 2013)  
(2) - Table 1A(3), HSL A & HSL B Column 1 (Sand 0 m to <1 m) - Soil HSLs for Vapour Intrusion for Low – High Density Residential - NEHF A (NEPC, 2013)  
(3) - Tables 1B(1), 1B(2), 1B(3), 1B(4), 1B(5) and 1B(6), EILs and ESLs - Urban Residential and Public Open Space (NEPC, 2013)  
EQL - laboratory Estimated Quantitation Limit  
"-" indicates that the criteria is not applicable for these analytes  
< Value = Concentration less than laboratory EQL









Table A - Soil Analytical Results

| Laboratory ID                                                                                                                                          |             |      |                                | SE202202.028                                             | SE202202.030               | SE202202.031   | SE202202.032   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------|--------------------------------|----------------------------------------------------------|----------------------------|----------------|----------------|
| Sample ID                                                                                                                                              |             |      |                                | SP1/0.1-0.3                                              | QC2                        | PAC1           | PAC2           |
| Depth (m)                                                                                                                                              |             |      |                                | 0.1-0.3                                                  | (Duplicate of SP1/0.1-0.3) | 0.1-0.3        | 0.1-0.3        |
| Soil Type                                                                                                                                              |             |      |                                | Sand and Rubble                                          |                            | Fibrous Cement | Fibrous Cement |
| Date Sampled                                                                                                                                           |             |      |                                | 28/1/20                                                  | 28/1/20                    | 28/1/20        | 28/1/20        |
| Compounds                                                                                                                                              | Unit        | EQL  | NEPM 2013                      |                                                          |                            |                |                |
|                                                                                                                                                        |             |      | Residential HIL A <sup>1</sup> | Urban Residential and Public Open Space EIL <sup>3</sup> |                            |                |                |
| TRHs                                                                                                                                                   |             |      |                                |                                                          |                            |                |                |
| TRH C6-C9                                                                                                                                              | mg/kg       | 20   | -                              | -                                                        | <20                        | <20            | NA             |
| TRH C6-C10                                                                                                                                             | mg/ka       | 25   | -                              | -                                                        | <25                        | <25            | NA             |
| TPH C6-C10 less BTEX (F1)                                                                                                                              | mg/kg       | 25   | 45 <sup>2</sup>                | 180                                                      | <25                        | <25            | NA             |
| TRH C10-C14                                                                                                                                            | mg/ka       | 20   | -                              | -                                                        | <20                        | <20            | NA             |
| TRH C15-C28                                                                                                                                            | mg/ka       | 45   | -                              | -                                                        | <45                        | <45            | NA             |
| TRH C29-C36                                                                                                                                            | mg/ka       | 45   | -                              | -                                                        | <45                        | <45            | NA             |
| TRH C37-C40                                                                                                                                            | mg/ka       | 100  | -                              | -                                                        | <100                       | <100           | NA             |
| TRH >C10-C16                                                                                                                                           | mg/kg       | 25   | -                              | -                                                        | <25                        | <25            | NA             |
| TRH >C10-C16 less Naphthalene (F2)                                                                                                                     | mg/kg       | 25   | 110 <sup>2</sup>               | -                                                        | <25                        | <25            | NA             |
| TRH >C16-C34 (F3)                                                                                                                                      | mg/ka       | 90   | -                              | 120                                                      | <90                        | <90            | NA             |
| TRH >C34-C40 (F4)                                                                                                                                      | mg/ka       | 120  | -                              | 300                                                      | <120                       | <120           | NA             |
| TRH >C10-C36                                                                                                                                           | mg/ka       | 110  | -                              | 2800                                                     | <110                       | <110           | NA             |
| TRH >C10-C40                                                                                                                                           | mg/kg       | 210  | -                              | -                                                        | <210                       | <210           | NA             |
| BTEX                                                                                                                                                   |             |      |                                |                                                          |                            |                |                |
| Benzene                                                                                                                                                | mg/kg       | 0.1  | 0.5 <sup>2</sup>               | 50                                                       | <0.1                       | <0.1           | NA             |
| Ethylbenzene                                                                                                                                           | mg/kg       | 0.1  | 55 <sup>2</sup>                | 70                                                       | <0.1                       | <0.1           | NA             |
| Toluene                                                                                                                                                | mg/kg       | 0.1  | 160 <sup>2</sup>               | 85                                                       | <0.1                       | <0.1           | NA             |
| Xylene (m & p)                                                                                                                                         | mg/ka       | 0.2  | -                              | -                                                        | <0.2                       | <0.2           | NA             |
| Xylene (o)                                                                                                                                             | mg/ka       | 0.1  | -                              | -                                                        | <0.1                       | <0.1           | NA             |
| Xylene Total                                                                                                                                           | mg/kg       | 0.3  | 40 <sup>2</sup>                | 105                                                      | <0.3                       | <0.3           | NA             |
| PAHs                                                                                                                                                   |             |      |                                |                                                          |                            |                |                |
| Naphthalene                                                                                                                                            | mg/kg       | 0.1  | 3 <sup>2</sup>                 | 170                                                      | <0.1                       | <0.1           | NA             |
| 2-methylnaphthalene                                                                                                                                    | mg/ka       | 0.1  | -                              | -                                                        | <0.1                       | <0.1           | NA             |
| 1-methylnaphthalene                                                                                                                                    | mg/kg       | 0.1  | -                              | -                                                        | <0.1                       | <0.1           | NA             |
| Acenaphthylene                                                                                                                                         | mg/ka       | 0.1  | -                              | -                                                        | <0.1                       | <0.1           | NA             |
| Acenaphthene                                                                                                                                           | mg/ka       | 0.1  | -                              | -                                                        | <0.1                       | <0.1           | NA             |
| Fluorene                                                                                                                                               | mg/ka       | 0.1  | -                              | -                                                        | <0.1                       | <0.1           | NA             |
| Phenanthrene                                                                                                                                           | mg/ka       | 0.1  | -                              | -                                                        | <0.1                       | <0.1           | NA             |
| Anthracene                                                                                                                                             | mg/kg       | 0.1  | -                              | -                                                        | <0.1                       | <0.1           | NA             |
| Fluoranthene                                                                                                                                           | mg/ka       | 0.1  | -                              | -                                                        | <0.1                       | <0.1           | NA             |
| Pvrene                                                                                                                                                 | mg/ka       | 0.1  | -                              | -                                                        | <0.1                       | <0.1           | NA             |
| Benzo(a)anthracene                                                                                                                                     | mg/ka       | 0.1  | -                              | -                                                        | <0.1                       | <0.1           | NA             |
| Chrysene                                                                                                                                               | mg/ka       | 0.1  | -                              | -                                                        | <0.1                       | <0.1           | NA             |
| Benzo(b&j)fluoranthene                                                                                                                                 | mg/kg       | 0.1  | -                              | -                                                        | <0.1                       | <0.1           | NA             |
| Benzo(k)fluoranthene                                                                                                                                   | mg/ka       | 0.1  | -                              | -                                                        | <0.1                       | <0.1           | NA             |
| Benzo(a)pyrene                                                                                                                                         | mg/ka       | 0.1  | -                              | 0.7                                                      | <0.1                       | <0.1           | NA             |
| Indeno(1,2,3-cd)pyrene                                                                                                                                 | mg/ka       | 0.1  | -                              | -                                                        | <0.1                       | <0.1           | NA             |
| Dibenzo(a&h)anthracene                                                                                                                                 | mg/ka       | 0.1  | -                              | -                                                        | <0.1                       | <0.1           | NA             |
| Benzo(ghi)perylene                                                                                                                                     | mg/ka       | 0.1  | -                              | -                                                        | <0.1                       | <0.1           | NA             |
| Carcinogenic PAHs (as BaP TEQ)-assume results <LOR=0                                                                                                   | TEQ         | 0.1  | 3                              | -                                                        | <0.2                       | <0.2           | NA             |
| Carcinogenic PAHs (as BaP TEQ)-assume results <LOR=LOR                                                                                                 | TEQ (mg/ka) | 0.1  | 3                              | -                                                        | <0.3                       | <0.3           | NA             |
| Carcinogenic PAHs (as BaP TEQ)-assume results <LOR=LOR/2                                                                                               | TEQ (mg/ka) | 0.1  | 3                              | -                                                        | <0.2                       | <0.2           | NA             |
| PAHs (Sum of total)                                                                                                                                    | mg/ka       | 1    | 300                            | -                                                        | <0.8                       | <0.8           | NA             |
| OCPs                                                                                                                                                   |             |      |                                |                                                          |                            |                |                |
| Hexachlorobenzene (HCB)                                                                                                                                | mg/ka       | 0.1  | 10                             | -                                                        | <0.1                       | NA             | NA             |
| Alpha BHC                                                                                                                                              | mg/ka       | 0.1  | -                              | -                                                        | <0.1                       | NA             | NA             |
| Lindane                                                                                                                                                | mg/kg       | 0.1  | -                              | -                                                        | <0.1                       | NA             | NA             |
| Heptachlor                                                                                                                                             | mg/ka       | 0.1  | 6                              | -                                                        | <0.1                       | NA             | NA             |
| Aldrin                                                                                                                                                 | mg/ka       | 0.1  | 6                              | -                                                        | <0.1                       | NA             | NA             |
| Dieldrin                                                                                                                                               | mg/ka       | 0.2  | -                              | -                                                        | <0.1                       | NA             | NA             |
| Beta BHC                                                                                                                                               | mg/ka       | 0.1  | -                              | -                                                        | <0.1                       | NA             | NA             |
| Delta BHC                                                                                                                                              | mg/kg       | 0.1  | -                              | -                                                        | <0.1                       | NA             | NA             |
| Heptachlor epoxide                                                                                                                                     | mg/ka       | 0.1  | -                              | -                                                        | <0.1                       | NA             | NA             |
| Alpha Endosulfan                                                                                                                                       | mg/ka       | 0.2  | -                              | -                                                        | <0.2                       | NA             | NA             |
| Gamma Chlordane                                                                                                                                        | mg/ka       | 0.1  | 50                             | -                                                        | <0.1                       | NA             | NA             |
| Alpha Chlordane                                                                                                                                        | mg/ka       | 0.1  | -                              | -                                                        | <0.1                       | NA             | NA             |
| trans-Nonachlor                                                                                                                                        | mg/kg       | 0.1  | -                              | -                                                        | <0.1                       | NA             | NA             |
| Endrin                                                                                                                                                 | mg/ka       | 0.2  | 10                             | -                                                        | <0.1                       | NA             | NA             |
| o,p'-DDD                                                                                                                                               | mg/ka       | 0.1  | 240                            | -                                                        | <0.2                       | NA             | NA             |
| o,p'-DDT                                                                                                                                               | mg/ka       | 0.1  | -                              | 180                                                      | <0.2                       | NA             | NA             |
| o,p'-DDE                                                                                                                                               | mg/ka       | 0.1  | -                              | -                                                        | <0.1                       | NA             | NA             |
| Beta Endosulfan                                                                                                                                        | mg/kg       | 0.2  | -                              | -                                                        | <0.1                       | NA             | NA             |
| p,p'-DDD                                                                                                                                               | mg/ka       | 0.1  | 240                            | -                                                        | <0.2                       | NA             | NA             |
| p,p'-DDT                                                                                                                                               | mg/ka       | 0.1  | -                              | 180                                                      | <0.1                       | NA             | NA             |
| p,p'-DDE                                                                                                                                               | mg/ka       | 0.1  | -                              | -                                                        | <0.1                       | NA             | NA             |
| Endosulfan sulphate                                                                                                                                    | mg/ka       | 0.1  | -                              | -                                                        | <0.1                       | NA             | NA             |
| Endrin Aldehyde                                                                                                                                        | mg/kg       | 0.1  | -                              | -                                                        | <0.1                       | NA             | NA             |
| Methoxychlor                                                                                                                                           | mg/ka       | 0.1  | 300                            | -                                                        | <0.1                       | NA             | NA             |
| Endrin Ketone                                                                                                                                          | mg/ka       | 0.1  | -                              | -                                                        | <0.1                       | NA             | NA             |
| Isodrin                                                                                                                                                | mg/ka       | 0.1  | -                              | -                                                        | <0.1                       | NA             | NA             |
| Mirex                                                                                                                                                  | mg/ka       | 0.1  | 10                             | -                                                        | <0.1                       | NA             | NA             |
| OPPs                                                                                                                                                   |             |      |                                |                                                          |                            |                |                |
| Dichlorvos                                                                                                                                             | mg/ka       | 0.5  | -                              | -                                                        | <0.5                       | NA             | NA             |
| Dimethoate                                                                                                                                             | mg/ka       | 0.5  | -                              | -                                                        | <0.5                       | NA             | NA             |
| Diazinon (Dimpylate)                                                                                                                                   | mg/ka       | 0.5  | -                              | -                                                        | <0.5                       | NA             | NA             |
| Fenitrothion                                                                                                                                           | mg/ka       | 0.2  | -                              | -                                                        | <0.2                       | NA             | NA             |
| Malathion                                                                                                                                              | mg/ka       | 0.2  | -                              | -                                                        | <0.2                       | NA             | NA             |
| Chlorpyrifos (Chlorpyrifos Ethyl)                                                                                                                      | mg/kg       | 0.2  | 160                            | -                                                        | <0.2                       | NA             | NA             |
| Parathion-ethyl (Parathion)                                                                                                                            | mg/ka       | 0.2  | -                              | -                                                        | <0.2                       | NA             | NA             |
| Bromophos Ethyl                                                                                                                                        | mg/ka       | 0.2  | -                              | -                                                        | <0.2                       | NA             | NA             |
| Methidathion                                                                                                                                           | mg/ka       | 0.5  | -                              | -                                                        | <0.5                       | NA             | NA             |
| Ethion                                                                                                                                                 | mg/ka       | 0.2  | -                              | -                                                        | <0.2                       | NA             | NA             |
| Azinphos-methyl (Guthion)                                                                                                                              | mg/kg       | 0.2  | -                              | -                                                        | <0.2                       | NA             | NA             |
| PCBs                                                                                                                                                   |             |      |                                |                                                          |                            |                |                |
| Arochlor 1016                                                                                                                                          | mg/ka       | 0.2  | -                              | -                                                        | <0.2                       | NA             | NA             |
| Arochlor 1221                                                                                                                                          | mg/ka       | 0.2  | -                              | -                                                        | <0.2                       | NA             | NA             |
| Arochlor 1232                                                                                                                                          | mg/ka       | 0.2  | -                              | -                                                        | <0.2                       | NA             | NA             |
| Arochlor 1242                                                                                                                                          | mg/ka       | 0.2  | -                              | -                                                        | <0.2                       | NA             | NA             |
| Arochlor 1248                                                                                                                                          | mg/kg       | 0.2  | -                              | -                                                        | <0.2                       | NA             | NA             |
| Arochlor 1254                                                                                                                                          | mg/ka       | 0.2  | -                              | -                                                        | <0.2                       | NA             | NA             |
| Arochlor 1260                                                                                                                                          | mg/ka       | 0.2  | -                              | -                                                        | <0.2                       | NA             | NA             |
| Arochlor 1262                                                                                                                                          | mg/ka       | 0.2  | -                              | -                                                        | <0.2                       | NA             | NA             |
| Arochlor 1268                                                                                                                                          | mg/ka       | 0.2  | -                              | -                                                        | <0.2                       | NA             | NA             |
| Total PCBs (Arochlors)                                                                                                                                 | mg/kg       | 1    | 1                              | -                                                        | <1                         | NA             | NA             |
| Metals                                                                                                                                                 |             |      |                                |                                                          |                            |                |                |
| Arsenic                                                                                                                                                | mg/ka       | 3    | 100                            | 100                                                      | 16                         | 7              | NA             |
| Cadmium                                                                                                                                                | mg/kg       | 0.3  | 20                             | -                                                        | <0.3                       | <0.3           | NA             |
| Chromium                                                                                                                                               | mg/ka       | 0.3  | 100                            | 190                                                      | 11                         | 10             | NA             |
| Copper                                                                                                                                                 | mg/ka       | 0.5  | 6,000                          | 130                                                      | 31                         | 32             | NA             |
| Lead                                                                                                                                                   | mg/ka       | 1    | 300                            | 1100                                                     | 32                         | 34             | NA             |
| Mercury                                                                                                                                                | mg/ka       | 0.01 | 40                             | -                                                        | <0.05                      | <0.05          | NA             |
| Nickel                                                                                                                                                 | mg/kg       | 0.5  | 400                            | 30                                                       | 9.1                        | 8.2            | NA             |
| Zinc                                                                                                                                                   | mg/ka       | 0.5  | 7,400                          | 180                                                      | 100                        | 110            | NA             |
| Asbestos                                                                                                                                               |             |      |                                |                                                          |                            |                |                |
| Asbestos Detected - Fibre Identification in soil                                                                                                       | No unit     | 0.01 | No Detected                    | -                                                        | No                         | NA             | Yes            |
| Estimated Fibres - Fibre Identification in soil                                                                                                        | %w/w        | 0.01 | 0.01                           | -                                                        | <0.01                      | NA             | NA             |
| NOTES:                                                                                                                                                 |             |      |                                |                                                          |                            |                |                |
| All concentrations are in mg/kg                                                                                                                        |             |      |                                |                                                          |                            |                |                |
| (1) - Table 1A(1), HIL Column 1 - Health Based Investigation Levels for Residential with Garden/Accessible Soil - NEHF A (NEPC, 2013)                  |             |      |                                |                                                          |                            |                |                |
| (2) - Table 1A(3), HSL A & HSL B Column 1 (Sand 0 m to <1 m) - Soil HSLs for Vapour Intrusion for Low – High Density Residential - NEHF A (NEPC, 2013) |             |      |                                |                                                          |                            |                |                |
| (3) - Tables 1B(1), 1B(2), 1B(3), 1B(4), 1B(5) and 1B(6), EILs and ESLs - Urban Residential and Public Open Space (NEPC, 2013)                         |             |      |                                |                                                          |                            |                |                |
| EQL - laboratory Estimated Quantitation Limit                                                                                                          |             |      |                                |                                                          |                            |                |                |
| "-" indicates that the criteria is not applicable for these analytes                                                                                   |             |      |                                |                                                          |                            |                |                |
| < Value = Concentration less than laboratory EQL                                                                                                       |             |      |                                |                                                          |                            |                |                |
| 40                                                                                                                                                     |             |      |                                |                                                          |                            |                |                |



## **Appendix A – Section 10.7 Certificate**

**PLANNING CERTIFICATE UNDER SECTION 10.7  
ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979**

**Ref.:** WEST HOXTON:88079  
**Ppty:** 166526

**Cert. No.:** 3761

**Applicant:**  
LAND & GROUNDWATER CONSULTING PTY LTD  
13/80-84 ILLAWARRA RD  
MARRICKVILLE NSW 2204

**Receipt No.:** 4483825  
**Receipt Amt.:** 53.00  
**Date:** 09-Feb-2020

The information in this certificate is provided pursuant to Section 10.7(2) of the Environmental Planning and Assessment Act (EP&A Act) 1979, as prescribed by Schedule 4 of the Environmental Planning and Assessment Regulation (EP&A Regulation) 2000. The information has been extracted from Council's records, as they existed at the date listed on the certificate. Please note that the accuracy of the information contained within the certificate may change after the date of this certificate due to changes in Legislation, planning controls or the environment of the land.

The information in this certificate is applicable to the land described below.

**Legal Description:** LOT 2 DP 1074727

**Street Address:** LOT 2 FIFTEENTH AVENUE, WEST HOXTON NSW 2171

*Note: Items marked with an asterisk (\*) may be reliant upon information transmitted to Council by a third party public authority. The accuracy of this information cannot be verified by Council and may be out-of-date. If such information is vital for the proposed land use or development, applicants should instead verify the information with the appropriate authority.*

*Note: Commonly Used Abbreviations:*

**LEP:** Local Environmental Plan  
**DCP:** Development Control Plan  
**SEPP:** State Environmental Planning Policy  
**EPI:** Environmental Planning Instrument

## **1. Names of relevant planning instruments and DCPs**

(a) The name of each EPI that applies to the carrying out of development on the land is/are listed below:

LEPs:

**Liverpool LEP 2008**

SEPPs\*:

**SEPP No. 33 – Hazardous and Offensive Development  
SEPP No. 50 – Canal Estate Development  
SEPP No. 55 – Remediation of Land  
SEPP No. 62 – Sustainable Aquaculture  
SEPP No. 65 – Design Quality of Residential Flat Development  
SEPP (Building Sustainability Index: BASIX) 2004  
SEPP No. 70 – Affordable Housing (Revised Schemes)  
SEPP (Infrastructure) 2007  
SEPP (Mining, Petroleum Production and Extractive Industries) 2007  
SEPP (Miscellaneous Consent Provisions) 2007  
SEPP (State and Regional Development) 2011  
SEPP (Education Establishments and Child Care Facilities) 2017  
SEPP (Vegetation in Non-Rural Areas) 2017  
SEPP No 19 – Bushland in Urban Areas  
SEPP No 21 – Caravan Parks  
SEPP No 30 – Intensive Agriculture  
SEPP No 44 – Koala Habitat Protection  
SEPP (Exempt and Complying Development Codes) 2008  
SEPP No 64 – Advertising and Signage  
SEPP (Affordable Rental Housing) 2009  
SEPP (Sydney Region Growth Centres) 2006  
SEPP (Housing for Seniors or People with a Disability) 2004**

Deemed SEPPs\*:

**Greater Metropolitan Regional Environmental Plan No 2 – Georges River Catchment**

(b) The name of each draft EPI, or Planning Proposal (which has been subject to community consultation).

Draft LEPs:

**N/A**

Draft SEPPs\*:

**Draft SEPP (Competition) 2010**

(c) The name of each DCP that applies to the carrying out of development on the land.

**Liverpool DCP 2008****2. Zoning and land use under relevant LEPs and /or SEPPs**

This section contains information required under subclauses 2 and 2A of Schedule 4 of the EP&A Regulation 2000. Subclause 2 of the regulation requires Council to provide information with respect to zoning and land-use in areas zoned by, or proposed to be zoned by, a LEP. Subclause 2A of Schedule 4 of the regulation requires Council to provide information with respect to zoning and land-use in areas which are zoned by, or proposed to be zoned by, the SEPP (Sydney Region Growth Centres) 2006. The land use and zoning information under any EPI applying to the land is given below.

- (a) Name of zone, and the EPI from which the land zoning information is derived.

**R2 Low Density Residential - Liverpool LEP 2008**

- (b) The purposes for which development may be carried out within the zone without the need for development consent

**Home-based child care; Home occupations**

- (c) The purposes for which development may not be carried out within the zone except with development consent

**Attached dwellings; Bed and breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Child care centres; Community facilities; Dwelling houses; Educational establishments; Environmental facilities; Environmental protection works; Exhibition homes; Exhibition villages; Flood mitigation works; Group homes; Health consulting rooms; Home businesses; Home industries; Places of public worship; Recreation areas; Respite day care centres; Roads; Secondary dwellings; Semi-detached dwellings**

- (d) The purposes for which the instrument provides that development is prohibited within the zone

**Any development not specified in item (b) or (c)**

- (a) Name of zone, and the EPI from which the land zoning information is derived.

**SP2 Infrastructure (Classified Road) - Liverpool LEP 2008**

- (b) The purposes for which development may be carried out within the zone without the need for development consent

**Nil**

- (c) **The purposes** for which development may not be carried out within the zone except with development consent

The purpose shown on the Land Zoning Map, including any development incidental or ancillary

to development for that purpose; **Environmental protection works; Roads**

**(d) The purposes for which the instrument provides that development is prohibited within the zone**

**Any development not specified in item (b) or (c)**

**Additional Use - Use of certain land for service stations and take away food and drink  
Premises**

(1) This clause applies to land shown coloured yellow on the Key Sites Map.

(2) Development for the following purposes is permitted with consent:

(a) service stations,

(b) take away food and drink premises if:

- i. there will be no more than 1 take away food and drink premises at each of the areas shown coloured yellow on the Key Sites Map, and
- ii. the gross floor area of the take away food and drink premises is not greater than 300m<sup>2</sup>.

(e) If a dwelling house is a permitted use, are there any principal development standards applying to the land that fix minimum land dimensions for the erection of a dwelling house?

**No**

(f) Does the land include or comprise critical habitat?

**No**

(g) Is the land is in a conservation area (however described):

**No**

(h) Is there an item of environmental heritage (however described) situated on the land

**No**

### 3. Complying development

The information below outlines whether complying development is permitted on the land as per the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18(1) (c3) and 1.19 SEPP of the (Exempt and Complying Development Codes) 2008.

The first column identifies the code(s). The second column describes the extent of the land in which exempt and complying development is permitted for the code(s) given to the immediate left. The third column indicates the reason as to why exempt and complying development is prohibited on some or all of the land, and will be blank if such development is permitted on all of the land.

| <b>Code</b>                                                                                                                                                                                   | <b>Extent of the land for which development is permitted:</b> | <b>The reason(s) as to why development is prohibited:</b> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------|
| Housing Code, Rural Housing Code and Greenfield Housing Code                                                                                                                                  | <b>All</b>                                                    |                                                           |
| Commercial and Industrial (New Buildings and Additions) Code                                                                                                                                  | <b>All</b>                                                    |                                                           |
| General Development Code, Container Recycling Facilities Code, Fire Safety Code, Housing Alterations Code, Commercial and Industrial Alterations Code, Subdivisions Code, and Demolition Code | <b>All</b>                                                    |                                                           |

Note: If council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land, a statement below will describe that a restriction applies to the land, but it may not apply to all of the land, and that council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.

**Nil**

#### **4. Coastal protection\***

Has the Department of Finance, Services and Innovation notified Council of the land being affected by 38 or 39 of the Coastal Protection Act, 1979?

**No**

#### **4A. Certain information relating to beaches and coasts\***

(a) Has an order has been made under Part 4D of the Coastal Protection Act 1979 on the land (or on public land adjacent to that land)?

**No**

(b) Has Council been notified under section 55X of the Coastal Protection Act 1979 that temporary coastal protection works have been placed on the land (or on public land adjacent to that land), and if works have been so placed, is council is satisfied that the works have been removed and the land restored in accordance with that Act?

**Not applicable**

**4B. Annual charges under Local Government Act 1993 for coastal protection services that relate to existing coastal protection works\***

Has the owner (or any previous owner) of the land consented, in writing, that the land is subject to annual charges under section 496B of the Local Government Act 1993 for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act)?

**No**

**5. Mine subsidence\***

Is the land a proclaimed to mine subsidence district within the meaning of section 15 of the Mine Subsidence Compensation Act 1961?

**No**

**6. Road widening and road realignment**

Is the land is affected by any road widening or road realignment under:

(a) Division 2 of Part 3 of the Roads Act 1993?\*

**No**

(b) An EPI?

**Yes**

(c) A resolution of the council?

**No**

**7. Council and other public authority policies on hazard risk restrictions**

The following table lists hazard/risk policies that have been adopted by Council (or prepared by another public authority and subsequently adopted by Council). The right-most column indicates whether the land is subject to those policies.

| Hazard/Risk                          | Adopted Policy                                                | Does this hazard/risk policy apply to the land?                 |
|--------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------|
| <b>Landslip hazard</b>               | Nil                                                           | <b>No</b>                                                       |
| <b>Bushfire hazard</b>               | Liverpool DCP 2008                                            | <b>Yes</b>                                                      |
|                                      | Liverpool Growth Centre Precincts DCP*                        | <b>No</b>                                                       |
|                                      | Edmondson Park South DCP 2012                                 | <b>No</b>                                                       |
|                                      | Planning for Bushfire Protection (Rural Fire Services, 2006)* | <b>Yes</b>                                                      |
|                                      | Pleasure Point Bushfire Management Plan                       | <b>No</b>                                                       |
| <b>Tidal inundation</b>              | Nil                                                           | <b>No</b>                                                       |
| <b>Subsidence</b>                    | Nil                                                           | <b>No</b>                                                       |
| <b>Acid Sulphate Soils</b>           | Liverpool LEP 2008                                            | <b>No</b>                                                       |
|                                      | Liverpool DCP 2008                                            | <b>No</b>                                                       |
| <b>Potentially Contaminated Land</b> | Liverpool DCP 2008                                            | <b>Yes</b> , see section 10 of Part 1 of the Liverpool DCP 2008 |
|                                      | Liverpool Growth Centre Precincts DCP*                        | <b>No</b>                                                       |
| <b>Potentially Saline Soils</b>      | Liverpool DCP 2008                                            | <b>Yes</b>                                                      |
|                                      | Liverpool Growth Centre Precincts DCP*                        | <b>No</b>                                                       |

Note: Land for which a policy applies does not confirm that the land is affected by that hazard/risk. For example, all land for which the Liverpool DCP applies is subject to controls relating to contaminated land, as this policy contains triggers and procedures for identifying potential contamination. Applicants are encouraged to review the relevant policy, and other sections of this certificate, to determine what effect, if any, the policy may have on the land.

## 7A. Flood related development controls information

- (a) For the purpose of residential accommodation (excluding group homes or seniors housing), is the land, or part of the land, within the flood planning area and subject to flood planning controls?

**No**

For details of these controls, please refer to the flooding section of the relevant DCP(s) as specified in Section 1(c) of this certificate.

(b) Is development on that land, or part of the land, for any other purpose subject to flood related development controls?

**No**

For details of these controls, please refer to the flooding section of the relevant DCP(s) as specified in Section 1(c) of this certificate.

*Note: Words and expressions in this clause have the same meanings as in the instrument set out in the Schedule to the Standard Instrument (Local Environmental Plans) Order 2006.*

## **8. Land reserved for acquisition**

Does a LEP, draft LEP, SEPP or draft SEPP identify the acquisition of the land, or part of the land, by a public authority, as referred to in section 3.15 of the Act?

**No**

## **9. Contribution Plans**

**Liverpool Contributions Plan 2009**

## **9A. Biodiversity certified land\***

Is the land, or part of the land, biodiversity certified land (within the meaning of Part 8 of the Biodiversity Conservation Act 2016)?

**Yes, part/all of the land is bio-diversity certified land**

## **10. Biobanking agreements\***

Is the land subject to a bio-banking agreement under Part 6 of the Biodiversity Conservation Act 2016, as notified to Council by the Chief Executive of the Office of Environment and Heritage?

**No**

## **10A. Native vegetation clearing set asides**

Does the land contain a set aside area under section 60ZC of the Local Land Services Act 2013?

**No, Liverpool is excluded from section 60ZC of the Local Land Services Act 2013**

## **11. Bushfire prone land**



Is the land or part of the land, bushfire prone land as defined by the EP&A Act 1979?

**Yes, part of the land is bushfire prone land**

## **12. Property vegetation plans\***

Is Council aware of the land being subject to a Property Vegetation Plan under the Native Vegetation Act 2003?

**No, Liverpool is excluded from the operation of the Native Vegetation Act 2003**

## **13. Orders under Trees (Disputes between Neighbours) Act 2006\***

Does an order, made under the Trees (Disputes Between Neighbours) Act 2006 in relation to carrying out of work in relation to a tree on the land, apply?

**No, Council has not been notified of an order**

## **14. Directions under Part 3A\***

Is there a direction (made by the Minister) that a provision of an EPI in relation to a development does not have effect?

**No**

## **15. Site compatibility certificates and conditions for seniors housing\***

(a) Is there is a current site compatibility certificate (seniors housing), in respect of proposed development on the land?

**No, Council has not been notified of an order.**

## **16. Site compatibility certificates for infrastructure\***

(a) Is there is a current site compatibility certificate (infrastructure), in respect of proposed development on the land?

**No, Council has not been notified of an order**

## **17. Site compatibility certificates and conditions for affordable rental housing\***

Is there is a current site compatibility certificate (Affordable housing), in respect of proposed development on the land?

**No, Council has not been notified of an order.**

## **18. Paper subdivision information\***

Does any development plan adopted by a relevant authority (or proposed plan subject to a consent ballot) apply to the land? If so the date of the subdivision order that applies to the land.

No

## **19. Site verification certificates\***

Does a current site verification certificate, apply to the land?

No, Council is not aware of a site verification certificate

## **20. Loose-fill asbestos insulation \***

Is a dwelling on the land listed on the register (maintained by the NSW Department of Fair Trading) as containing loose-fill asbestos insulation?

No

Note: despite any listing on the register, any buildings constructed before 1980 may contain loose-fill asbestos insulation or other asbestos products.

## **21. Affected building notices and building product rectification orders\***

Is there any affected building notice (as in Part 4 of the Building Products (Safety) Act 2017) of which the council is aware that is in force in respect of the land?

No

Is there any building product rectification order (as in the Building Products (Safety) Act 2017) of which the council is aware that is in force in respect of the land and has not been fully complied with?

No

Is there any notice of intention to make a building product rectification order (as in the Building Products (Safety) Act 2017) of which the council is aware has been given in respect of the land and is outstanding?

No

## **22. Contaminated land**

Is the land:

(a) Significantly contaminated land within the meaning of that Act?

**No**

(b) Subject to a management order within the meaning of that Act?

**No**

(c) Subject of an approved voluntary management proposal within the meaning of that Act?

**No**

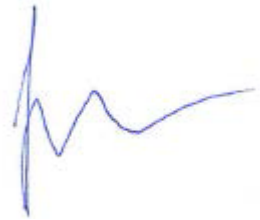
(d) Subject to an ongoing maintenance order within the meaning of that Act?

**No**

(e) Subject of a site audit statement within the meaning of that Act? \*

**No**

Note: in this clause 'the Act' refers to the Contaminated Land Management Act 1997.



Kiersten Fishburn  
Chief Executive Officer  
Liverpool City Council

For further information, please contact  
CALL CENTRE – 1300 36 2170

## **Appendix B – Registered Groundwater Bore Search**

[help](#) · [login](#) · [contact](#) · [customise](#)

## State Overview

[State Overview](#)

## Rivers and Streams

[favourites](#) · [search](#) ·

[download sites](#) ·

[find a site](#)

[Real Time Data - Ri...](#)

## Daily River Reports

[Daily River Reports](#)

## Dams

[favourites](#) · [search](#) ·

[download sites](#) ·

[find a site](#)

[Real Time Data - M...](#)

## Groundwater (Telemetered data)

[favourites](#) · [search](#) ·

[download sites](#) ·

[find a site](#)

[Real Time Data - Bo...](#)

## All Groundwater Site details

[search](#) · [download sites](#) ·

[find a site](#) ·

[search by licence](#)

[All Groundwater Map](#)

[North Coast Region](#)

[Hunter Region](#)

[Greater Sydney...](#)

[South Coast Regi...](#)

[Northwest Region](#)

[Central West Regi...](#)

[Southwest Region](#)

[Far West Region](#)

[Great Artesian Ba...](#)

[Coal Basins](#)

## Meteorology

[favourites](#) · [search](#) ·

[download sites](#) ·

[find a site](#)

[Real Time Data - W...](#)

## Hunter Integrated Telemetry System

[Hunter Integrated T...](#)

[glossary and metadata](#)

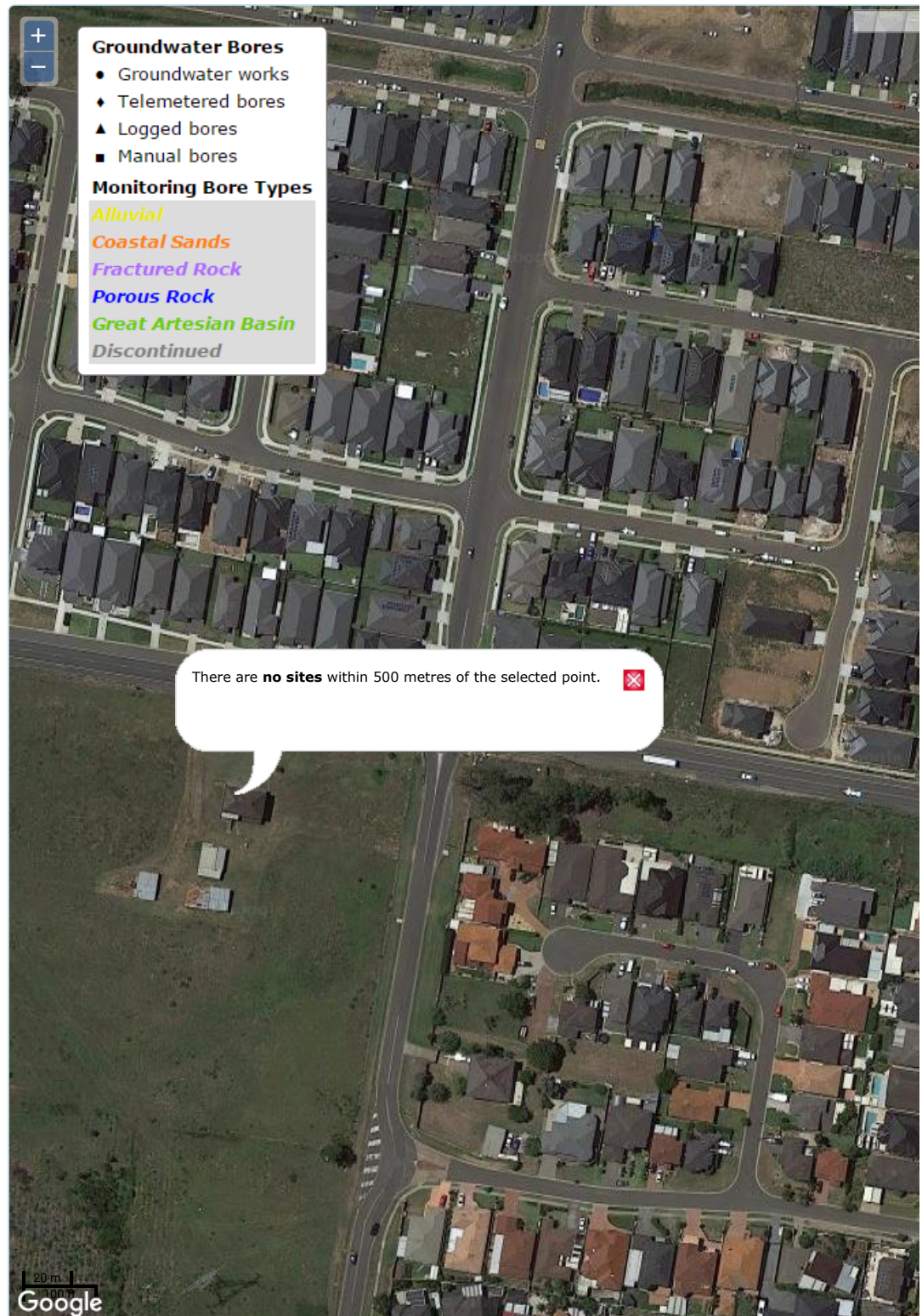
[All Groundwater Site Details](#) » [All Groundwater Map](#)

## Greater Sydney Region

All data times are Eastern Standard Time

[bookmark this page](#)

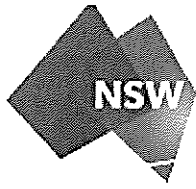
### Map



Scale = 1 : 1693

300419, 6244504, 56

## **Appendix C – Certificates of Title**



LAND  
REGISTRY  
SERVICES

# Title Search



NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 2/1074727

| SEARCH DATE | TIME     | EDITION NO | DATE       |
|-------------|----------|------------|------------|
| 28/11/2018  | 12:37 PM | 2          | 25/10/2018 |

## LAND

LOT 2 IN DEPOSITED PLAN 1074727  
AT WEST HOXTON  
LOCAL GOVERNMENT AREA LIVERPOOL  
PARISH OF CABRAMATTA COUNTY OF CUMBERLAND  
TITLE DIAGRAM DP1074727

## FIRST SCHEDULE

ANGELA CARMEL FROIO (AE AN807455)

## SECOND SCHEDULE (1 NOTIFICATION)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)

## NOTATIONS

UNREGISTERED DEALINGS: NIL

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

FROIO

PRINTED ON 28/11/2018

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

## PLAN FORM 2 (APPROVED FORM 3)

**SIGNATURE, AND SEALS ONLY.**

*Phil Kenny*  
 Witnessed by me PHILIP GERARD KENNY, Deputee of the Minister  
 administering the Environmental Planning and Assessment Act, 1979, and  
 I hereby certify that I have no notice of the revocation of such declaration.

Department of Land and Water Conservation Approval

\_\_\_\_\_ in approving this plan certifies  
(Authorized Officer)  
that all necessary approvals in regard to the allocation of the land  
shown hereon have been given.

**Abstract:**

Only

**File Number:**

On

## Subdivision Certificate

I certify that the provisions of s.109J of the Environmental Planning and Assessment Act 1979 have been satisfied in relation to the proposed

set out herein  
(Insert 'subdivision' or 'new road')

\*Authorized Person/General Manager/Accredited Carrier

**Consent Authority:** \_\_\_\_\_

**Date of Endorsement:** \_\_\_\_\_

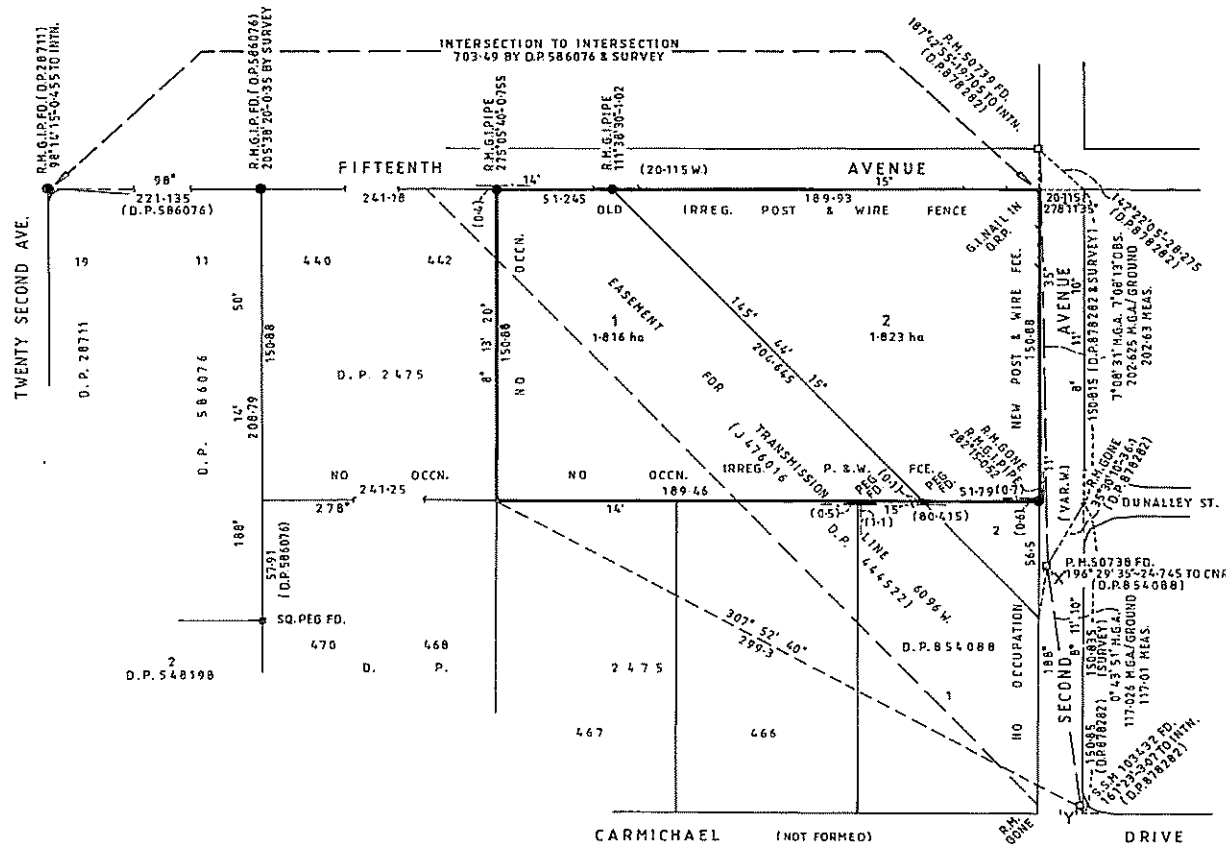
[illegible][illegible]

Note:  
When the plan is to be lodged electronically in Land and Property  
information, it should include a signature in an electronic or digital  
format approved by the Director-General.

[Delete whichever is inappropriate]

SURVEYOR'S REFERENCE: 02063 O.P.

**Plan Drawing only to appear in this space**



| SURVEYING REGULATION CLAUSE 32(2) |                     |               |      |       |       |
|-----------------------------------|---------------------|---------------|------|-------|-------|
| MARK                              | M.G.A. CO-ORDINATES |               | ZONE | CLASS | ORDER |
|                                   | EASTING             | NORTHING      |      |       |       |
| P.M.50738                         | 300 292-610         | 6 244 171-113 | 56   | B     | 2     |
| P.M.50739                         | 300 291-804         | 6 244 172-183 | 56   | B     | 2     |
| S.S.M.103432                      | 300 291-117         | 6 244 054-088 | 56   | C     | 3     |

SOURCE: M.G.A. CO-ORDINATES ADOPTED FROM  
S.C.I.M.S. AT 2-9-2004.

COMBINED SCALE FACTOR 1.000079

**WARNING: CREASING OR FOLDING WILL LEAD TO REJECTION**

DP1074727

Registered:  R 2-12-2004

Title System: TORRENS

**Purpose:** ACQUISITION

Ref. Man: U 8237 - 1 & 2<sup>4th</sup>

Leaf Print: D.P. 2475

PLAN OF  
ACQUISITION  
OF PARTS OF  
LOTS 443 TO 445 INCLUSIVE  
IN D.P. 2475

Lengths are in metres      Reduction Ratio 1:1500

LGA: LIVERPOOL

Locality: WEST HOXTON

Parish: CABRAMATTA

County: CUMBERLAND

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

Surveying Regulation 2001  
PAUL MICHAEL DALY

JOHN H DALLY & ASSOC PTY LTD.  
P.O. BOX 25 CAMPBELLTOWN  
a surveyor registered under the Surveying Act 2002, hereby certifies  
that the survey represented in this plan is accurate, has been made in  
accordance with the Surveying Regulations 2001 and was completed  
15.9.2004

The survey relates to: LOTS 1 AND 2  
 (Please specify the land actually surveyed or specify any land shown in the plan that is not the subject of the survey)  
 (Signature) Frank Mundy Date: 17-9-04  
 Surveyor registered under the surveying act 2002

Date Recd: 1X1Y1  
Type: Urban Affairs

Plans used in preparation of Survey/Compilation

O.P. 2475 D.P. 444522

D.P. 586076 D.P. 854088

D.P. 878282

PANEL FOR USE ONLY for statements of intention to dedicate public roads, to create public reserves, drainage reserves, easements, restrictions on the use of land or positive covenants

LOT 1 IS TO BE ACQUIRED BY THE  
MINISTER ADMINISTERING THE  
ENVIRONMENTAL PLANNING AND  
ASSESSMENT ACT 1979

## St \$07.

## New South Wales.

VOL. 2574 FOLIO 72

CANCELLED

ON ISSUE OF NEW FOLIO AUTO CONSOL. 2574-72

Edward Charles Hutton of Knoxton Park Telephone Linesman Transferee under  
Instrument of Transfer N<sup>o</sup> 172177 from The Assets Realisation Company Limited Mortgagee exercising  
Power of Sale \_\_\_\_\_ is now the proprietor of an Estate in Fee Simple,  
subject nevertheless to the reservations and conditions, if any, contained in the Grant hereinafter referred to, and also subject to such encumbrances,  
liens, and interest as are notified hereon, in That \_\_\_\_\_ piece of land situated \_\_\_\_\_  
in the Shire of Nepean \_\_\_\_\_, Parish of Cabramatta \_\_\_\_\_, and County of Cumberland \_\_\_\_\_  
containing Nine acres \_\_\_\_\_, or thereabouts,  
as shown on the Plan hereon, and therein edged red, being Lots 442, 443 and 467 \_\_\_\_\_  
on a Plan deposited in the Land Titles Office, Sydney, No. 2475 and part of Eight hundred acres (Portion 40 of Parish)  
delineated in the Public Map of the said Parish in the Department of Lands originally granted to Thomas Sterop Ames by  
Crown Grant dated the Thirteenth day of January, One thousand eight hundred and eighteen \_\_\_\_\_

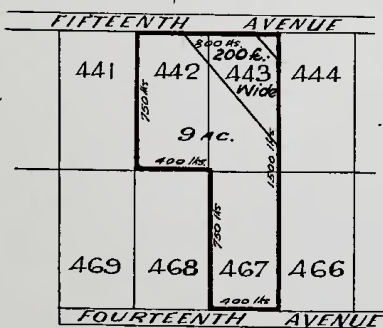
In witness whereof, I have hereunto signed my name and affixed my Seal, this fourteenth day of

Signed the 14 day of May 1915

in the presence of

Deputy Registrar General.

NOTIFICATION REFERRED TO.



SCALE: 8 Chains to one inch

No. A 708581 TRANSFER dated 4<sup>th</sup> June 1921  
from the said Edward Charles Hutton to William  
Henry Silk of Boston Park (Blacksmith)

Produced and entered 24<sup>th</sup> June 1921  
at 11 o'clock in the fore noon.

R. P. Williams  
REGISTRAR GENERAL



No 4968975 Caveat dated 13<sup>th</sup> July 1923.  
Produced and entered 17<sup>th</sup> July 1923 at  
53 mts ft 2 o'clock in the afternoon.

Registrar General

2559227R

NO. C 539227 APPLICATION BY TRANSMISSION  
Lucy Dill of Guildford, Widow  
is now the registered  
Proprietor of the Land within described in pursuance of the above  
Application Produced 19<sup>th</sup> May 1937 and  
entered 1<sup>st</sup> September 1937  
at 12 o'clock in the noon.  
*Reg W. Miles*  
REGISTRAR GENERAL

The within mentioned caveat No. A968975 has lapsed.

Dated 28<sup>th</sup> August 1939

Vide App. C807703

*Reg W. Miles*  
REGISTRAR GENERAL

No. C 807703 TRANSFER dated 24<sup>th</sup> June 1939  
from the said Lucy Dill to Walter Israel  
Taylor of Hoxton Park, Trader Driver  
of the land within described  
Produced 14<sup>th</sup> July 1939 and entered 28<sup>th</sup> August 1939  
at 12 o'clock in the noon.  
*Reg W. Miles*  
REGISTRAR GENERAL

COSIMO GISMONDO

*Cosimo Gismondo of Austral, Railway Employee*

now the registered proprietor of the land within described.

See TRANSFER No. T92155 dated 15<sup>th</sup> June 1962

Entered 1<sup>st</sup> November 1962.

*Jawatson*  
REGISTRAR GENERAL

No. J476016 NOTICE OF RESUMPTION  
ELECTRICITY COMMISSION OF NEW SOUTH WALES is  
the proprietor of an easement for Transmission Line affecting that  
part of the land within described, shown by black lines and notation  
200 feet wide on the plan hereon, freed from all other interests.  
Entered 6th January 1965

*Jawatson*  
REGISTRAR GENERAL

COMPUTER FOLIO NO FURTHER  
DEALINGS TO BE REGISTERED.

C807703  
T92155  
Removal of Easement for Transmission  
over 14.2 Gps 31.5.63 to 14.89.  
J476016 N/A

## **Appendix D – Historical Aerial Photographs**



SCALE: DRAWN TO SCALE AS SHOWN

Not To Scale

NORTH

LEGEND:



Photograph courtesy of  
NSW Land and Property Information



REV: A  
DATE: 28/01/2020  
DRAWN: GP  
APPROVED: GP  
STATUS: Final  
DWG NO:

CLIENT: **DalCo & Covo Positino**

PROJECT: **104 Fifteenth Avenue, West Hoxton, NSW**

PROJECT NUMBER: LG1948.01

TITLE: **Aerial Photograph  
1965**

FIGURE:

A4



SCALE: DRAWN TO SCALE AS SHOWN

Not To Scale

NORTH

LEGEND:



Photograph courtesy of  
NSW Land and Property Information



REV: A  
DATE: 28/01/2020  
DRAWN: GP  
APPROVED: GP  
STATUS: Final  
DWG NO:

CLIENT: **DalCo & Covo Positino**

PROJECT: **104 Fifteenth Avenue, West Hoxton, NSW**

PROJECT NUMBER: LG1948.01

TITLE: **Aerial Photograph  
1978**

FIGURE:

A4



SCALE: DRAWN TO SCALE AS SHOWN

Not To Scale

NORTH

LEGEND:



Photograph courtesy of  
NSW Land and Property Information



REV: A  
DATE: 28/01/2020  
DRAWN: GP  
APPROVED: GP  
STATUS: Final  
DWG NO:

CLIENT: **DalCo & Covo Positino**  
PROJECT: **104 Fifteenth Avenue, West Hoxton, NSW**  
PROJECT NUMBER: LG1948.01

TITLE: **Aerial Photograph  
2001**

FIGURE:

A4



SCALE: DRAWN TO SCALE AS SHOWN

Not To Scale

NORTH

LEGEND:



Site Boundary

Photograph courtesy of  
NSW Land and Property Information



REV: A  
DATE: 28/01/2020  
DRAWN: GP  
APPROVED: GP  
STATUS: Final  
DWG NO:

CLIENT: DalCo & Covo Positino

PROJECT: 104 Fifteenth Avenue, West Hoxton, NSW

PROJECT NUMBER: LG1948.01

TITLE: **Aerial Photograph  
2007**

FIGURE:

A4



SCALE: DRAWN TO SCALE AS SHOWN

Not To Scale

NORTH

LEGEND:

 Site Boundary

Photograph courtesy of  
NSW Land and Property Information



REV: A  
DATE: 28/01/2020  
DRAWN: GP  
APPROVED: GP  
STATUS: Final  
DWG NO:

CLIENT: **DalCo & Covo Positino**

PROJECT: **104 Fifteenth Avenue, West Hoxton, NSW**

PROJECT NUMBER: LG1948.01

TITLE: **Aerial Photograph  
2015**

FIGURE:

A4



SCALE: DRAWN TO SCALE AS SHOWN

Not To Scale

NORTH

LEGEND:



Site Boundary

Photograph courtesy of  
NSW Land and Property Information



REV: A  
DATE: 28/01/2020  
DRAWN: GP  
APPROVED: GP  
STATUS: Final  
DWG NO:

CLIENT: **DalCo & Covo Positino**

PROJECT: **104 Fifteenth Avenue, West Hoxton, NSW**

PROJECT NUMBER: LG1948.01

TITLE: **Aerial Photograph  
2018**

FIGURE:

A4



## **Appendix E – NSW EPA Search Results**

## Search results

Your search for: **General Search** with the following criteria

**Suburb - West Hoxton**

returned 2 results

| <a href="#">Export to excel</a> | 1 of 1 Pages             |                                  |                             |             | <a href="#">Search Again</a> |
|---------------------------------|--------------------------|----------------------------------|-----------------------------|-------------|------------------------------|
| Number                          | Name                     | Location                         | Type                        | Status      | Issued date                  |
| 20202                           | SYDNEY WATER CORPORATION | Lowry Ave, WEST HOXTON, NSW 2171 | POEO licence                | Surrendered | 11 Jan 2013                  |
| 1519590                         | SYDNEY WATER CORPORATION | Lowry Ave, WEST HOXTON, NSW 2171 | s.80 Surrender of a Licence | Issued      | 20 Jan 2015                  |

**For business and industry** ☐

**For local government** ☐

### Contact us

- ☐ 131 555 (tel:131555)
- ☐ [info@epa.nsw.gov.au](mailto:info@epa.nsw.gov.au) (mailto:info@epa.nsw.gov.au)
- ☐ [EPA Office Locations](https://www.epa.nsw.gov.au/about-us/contact-us/locations) (https://www.epa.nsw.gov.au/about-us/contact-us/locations)

[Accessibility](https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/help-index) (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/help-index)

[Disclaimer](https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/disclaimer) (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/disclaimer)

[Privacy](https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/privacy) (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/privacy)

[Copyright](https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/copyright) (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/copyright)

☐ [https://au.linkedin.com/company/nsw-environment-protection-authority-](https://au.linkedin.com/company/nsw-environment-protection-authority)

☐ <https://www.facebook.com/nswenvironment>

☐ [https://www.youtube.com/channel/U...](https://www.youtube.com/channel/UC...)

Find us on

## Search results

Your search for:Suburb: WEST HOXTON

[Search Again](#) [Refine Search](#)

did not find any records in our database.

If a site does not appear on the record it may still be affected by contamination. For example:

- Contamination may be present but the site has not been regulated by the EPA under the Contaminated Land Management Act 1997 or the Environmentally Hazardous Chemicals Act 1985.
- The EPA may be regulating contamination at the site through a licence or notice under the Protection of the Environment Operations Act 1997 (POEO Act).
- Contamination at the site may be being managed under the [planning process](#).

### Search TIP

To search for a specific site, search by LGA (local government area) and carefully review all sites listed.

... [more search tips](#)

More information about particular sites may be available from:

- The [POEO public register](#)
- The appropriate planning authority: for example, on a planning certificate issued by the local council under [section 149 of the Environmental Planning and Assessment Act](#).

See [What's in the record and What's not in the record](#).

If you want to know whether a specific site has been the subject of notices issued by the EPA under the CLM Act, we suggest that you search by Local Government Area only and carefully review the sites that are listed.

This public record provides information about sites regulated by the EPA under the Contaminated Land Management Act 1997, including sites currently and previously regulated under the Environmentally Hazardous Chemicals Act 1985. Your inquiry using the above search criteria has not matched any record of current or former regulation. You should consider searching again using different criteria. The fact that a site does not appear on the record does not necessarily mean that it is not affected by contamination. The site may have been notified to the EPA but not yet assessed, or contamination may be present but the site is not yet being regulated by the EPA. Further information about particular sites may be available from the appropriate planning authority, for example, on a planning certificate issued by the local council under section 149 of the Environmental Planning and Assessment Act. In addition the EPA may be regulating contamination at the site through a licence under the Protection of the Environment Operations Act 1997. You may wish to search the POEO public register.[POEO public register](#)

**For business  
and industry** ☐

**For local  
government** ☐

## Contact us

- ☐ 131 555 (tel:131555)
- ☐ [info@epa.nsw.gov.au](mailto:info@epa.nsw.gov.au) (mailto:info@epa.nsw.gov.au)
- ☐ EPA Office Locations (<https://www.epa.nsw.gov.au/about-us/contact-us/locations>)

[Accessibility \(https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/help-index\)](https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/help-index)

[Disclaimer \(https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/disclaimer\)](https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/disclaimer)

[Privacy \(https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/privacy\)](https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/privacy)

[Copyright \(https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/copyright\)](https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/copyright)

☐ <https://au.linkedin.com/company/nsw-environment-protection-authority>

☐ <https://www.facebook.com/nsw.epa>

Find us on



## **Appendix F – Laboratory Reports**



## STATEMENT OF QA/QC PERFORMANCE

SE202202 R0

### CLIENT DETAILS

Contact **Gonzalo Parra**  
Client **LAND AND GROUNDWATER CONSULTING PTY LTD**  
Address **131 B Riverview Road  
NSW 2204**

Telephone **61 2 95598424**  
Facsimile **(Not specified)**  
Email **gparra@lgconsult.com.au**

Project **104 Fifteenth Avenue, West Hoxton, NSW**  
Order Number **LG1948.01**  
Samples **32**

### LABORATORY DETAILS

Manager **Huong Crawford**  
Laboratory **SGS Alexandria Environmental**  
Address **Unit 16, 33 Maddox St  
Alexandria NSW 2015**

Telephone **+61 2 8594 0400**  
Facsimile **+61 2 8594 0499**  
Email **au.environmental.sydney@sgs.com**

SGS Reference **SE202202 R0**  
Date Received **28 Jan 2020**  
Date Reported **04 Feb 2020**

### COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.  
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.  
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

|           |                                                                     |        |
|-----------|---------------------------------------------------------------------|--------|
| Surrogate | PAH (Polynuclear Aromatic Hydrocarbons) in Soil                     | 1 item |
|           | VOC's in Soil                                                       | 1 item |
|           | Volatile Petroleum Hydrocarbons in Soil                             | 1 item |
| Duplicate | Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES | 1 item |

### SAMPLE SUMMARY



## HOLDING TIME SUMMARY

SE202202 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

### Fibre ID in bulk materials

Method: ME-(AU)-ENVJAN602

| Sample Name | Sample No.   | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due | Analysed    |
|-------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| PAC1        | SE202202.031 | LB192295 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 04 Feb 2020 | 27 Jan 2021  | 04 Feb 2020 |
| PAC2        | SE202202.032 | LB192295 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 04 Feb 2020 | 27 Jan 2021  | 04 Feb 2020 |

### Fibre Identification in soil

Method: ME-(AU)-ENVJAN602

| Sample Name  | Sample No.   | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due | Analysed    |
|--------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| BH1/0.1-0.3  | SE202202.001 | LB192203 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 31 Jan 2020 | 27 Jan 2021  | 04 Feb 2020 |
| BH2/0.1-0.3  | SE202202.002 | LB192203 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 31 Jan 2020 | 27 Jan 2021  | 04 Feb 2020 |
| BH3/0.1-0.3  | SE202202.003 | LB192203 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 31 Jan 2020 | 27 Jan 2021  | 04 Feb 2020 |
| BH4/0.1-0.3  | SE202202.004 | LB192203 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 31 Jan 2020 | 27 Jan 2021  | 04 Feb 2020 |
| BH5/0.1-0.3  | SE202202.005 | LB192203 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 31 Jan 2020 | 27 Jan 2021  | 04 Feb 2020 |
| BH6/0.1-0.3  | SE202202.006 | LB192203 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 31 Jan 2020 | 27 Jan 2021  | 04 Feb 2020 |
| BH7/0.1-0.3  | SE202202.007 | LB192203 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 31 Jan 2020 | 27 Jan 2021  | 04 Feb 2020 |
| BH8/0.1-0.3  | SE202202.008 | LB192203 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 31 Jan 2020 | 27 Jan 2021  | 04 Feb 2020 |
| BH9/0.1-0.3  | SE202202.009 | LB192203 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 31 Jan 2020 | 27 Jan 2021  | 04 Feb 2020 |
| BH10/0.1-0.3 | SE202202.010 | LB192203 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 31 Jan 2020 | 27 Jan 2021  | 04 Feb 2020 |
| BH11/0.1-0.3 | SE202202.011 | LB192203 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 31 Jan 2020 | 27 Jan 2021  | 04 Feb 2020 |
| BH12/0.1-0.3 | SE202202.012 | LB192203 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 31 Jan 2020 | 27 Jan 2021  | 04 Feb 2020 |
| BH13/0.1-0.3 | SE202202.013 | LB192203 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 31 Jan 2020 | 27 Jan 2021  | 04 Feb 2020 |
| BH14/0.1-0.3 | SE202202.014 | LB192203 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 31 Jan 2020 | 27 Jan 2021  | 04 Feb 2020 |
| BH15/0.1-0.3 | SE202202.015 | LB192203 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 31 Jan 2020 | 27 Jan 2021  | 04 Feb 2020 |
| BH16/0.1-0.3 | SE202202.016 | LB192203 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 31 Jan 2020 | 27 Jan 2021  | 04 Feb 2020 |
| BH17/0.1-0.3 | SE202202.017 | LB192203 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 31 Jan 2020 | 27 Jan 2021  | 04 Feb 2020 |
| BH18/0.1-0.3 | SE202202.018 | LB192203 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 31 Jan 2020 | 27 Jan 2021  | 04 Feb 2020 |
| BH19/0.1-0.3 | SE202202.019 | LB192203 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 31 Jan 2020 | 27 Jan 2021  | 04 Feb 2020 |
| BH20/0.1-0.3 | SE202202.020 | LB192203 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 31 Jan 2020 | 27 Jan 2021  | 04 Feb 2020 |
| BH21/0.1-0.3 | SE202202.021 | LB192203 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 31 Jan 2020 | 27 Jan 2021  | 04 Feb 2020 |
| BH22/0.1-0.3 | SE202202.022 | LB192203 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 31 Jan 2020 | 27 Jan 2021  | 04 Feb 2020 |
| BH23/0.1-0.3 | SE202202.023 | LB192203 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 31 Jan 2020 | 27 Jan 2021  | 04 Feb 2020 |
| BH24/0.1-0.3 | SE202202.024 | LB192203 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 31 Jan 2020 | 27 Jan 2021  | 04 Feb 2020 |
| BH25/0.1-0.3 | SE202202.025 | LB192203 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 31 Jan 2020 | 27 Jan 2021  | 04 Feb 2020 |
| BH26/0.1-0.3 | SE202202.026 | LB192203 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 31 Jan 2020 | 27 Jan 2021  | 04 Feb 2020 |
| BH27/0.1-0.3 | SE202202.027 | LB192203 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 31 Jan 2020 | 27 Jan 2021  | 04 Feb 2020 |
| SP1/0.1-0.3  | SE202202.028 | LB192203 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 31 Jan 2020 | 27 Jan 2021  | 04 Feb 2020 |
| QC1          | SE202202.029 | LB192203 | 28 Jan 2020 | 28 Jan 2020 | 27 Jan 2021    | 31 Jan 2020 | 27 Jan 2021  | 04 Feb 2020 |

### Mercury in Soil

Method: ME-(AU)-ENVJAN312

| Sample Name  | Sample No.   | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due | Analysed    |
|--------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| BH1/0.1-0.3  | SE202202.001 | LB192094 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |
| BH2/0.1-0.3  | SE202202.002 | LB192094 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |
| BH3/0.1-0.3  | SE202202.003 | LB192094 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |
| BH4/0.1-0.3  | SE202202.004 | LB192094 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |
| BH5/0.1-0.3  | SE202202.005 | LB192094 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |
| BH6/0.1-0.3  | SE202202.006 | LB192094 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |
| BH7/0.1-0.3  | SE202202.007 | LB192094 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |
| BH8/0.1-0.3  | SE202202.008 | LB192094 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |
| BH9/0.1-0.3  | SE202202.009 | LB192094 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |
| BH10/0.1-0.3 | SE202202.010 | LB192094 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |
| BH11/0.1-0.3 | SE202202.011 | LB192094 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |
| BH12/0.1-0.3 | SE202202.012 | LB192094 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |
| BH13/0.1-0.3 | SE202202.013 | LB192094 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |
| BH14/0.1-0.3 | SE202202.014 | LB192094 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |
| BH15/0.1-0.3 | SE202202.015 | LB192094 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |
| BH16/0.1-0.3 | SE202202.016 | LB192095 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |
| BH17/0.1-0.3 | SE202202.017 | LB192095 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |
| BH18/0.1-0.3 | SE202202.018 | LB192095 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |
| BH19/0.1-0.3 | SE202202.019 | LB192095 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |
| BH20/0.1-0.3 | SE202202.020 | LB192095 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |
| BH21/0.1-0.3 | SE202202.021 | LB192095 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |
| BH22/0.1-0.3 | SE202202.022 | LB192095 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |
| BH23/0.1-0.3 | SE202202.023 | LB192095 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |
| BH24/0.1-0.3 | SE202202.024 | LB192095 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |



## HOLDING TIME SUMMARY

SE202202 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

### Mercury in Soil (continued)

Method: ME-(AU)-ENVJAN312

| Sample Name  | Sample No.   | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due | Analysed    |
|--------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| BH25/0.1-0.3 | SE202202.025 | LB192095 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |
| BH26/0.1-0.3 | SE202202.026 | LB192095 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |
| BH27/0.1-0.3 | SE202202.027 | LB192095 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |
| SP1/0.1-0.3  | SE202202.028 | LB192095 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |
| QC1          | SE202202.029 | LB192095 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |
| QC2          | SE202202.030 | LB192095 | 28 Jan 2020 | 28 Jan 2020 | 25 Feb 2020    | 30 Jan 2020 | 25 Feb 2020  | 03 Feb 2020 |

### Moisture Content

Method: ME-(AU)-ENVJAN002

| Sample Name  | Sample No.   | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due | Analysed    |
|--------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| BH1/0.1-0.3  | SE202202.001 | LB192015 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |
| BH2/0.1-0.3  | SE202202.002 | LB192015 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |
| BH3/0.1-0.3  | SE202202.003 | LB192015 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |
| BH4/0.1-0.3  | SE202202.004 | LB192015 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |
| BH5/0.1-0.3  | SE202202.005 | LB192015 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |
| BH6/0.1-0.3  | SE202202.006 | LB192015 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |
| BH7/0.1-0.3  | SE202202.007 | LB192015 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |
| BH8/0.1-0.3  | SE202202.008 | LB192015 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |
| BH9/0.1-0.3  | SE202202.009 | LB192015 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |
| BH10/0.1-0.3 | SE202202.010 | LB192015 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |
| BH11/0.1-0.3 | SE202202.011 | LB192015 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |
| BH12/0.1-0.3 | SE202202.012 | LB192015 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |
| BH13/0.1-0.3 | SE202202.013 | LB192015 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |
| BH14/0.1-0.3 | SE202202.014 | LB192015 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |
| BH15/0.1-0.3 | SE202202.015 | LB192015 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |
| BH16/0.1-0.3 | SE202202.016 | LB192016 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |
| BH17/0.1-0.3 | SE202202.017 | LB192016 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |
| BH18/0.1-0.3 | SE202202.018 | LB192016 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |
| BH19/0.1-0.3 | SE202202.019 | LB192016 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |
| BH20/0.1-0.3 | SE202202.020 | LB192016 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |
| BH21/0.1-0.3 | SE202202.021 | LB192016 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |
| BH22/0.1-0.3 | SE202202.022 | LB192016 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |
| BH23/0.1-0.3 | SE202202.023 | LB192016 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |
| BH24/0.1-0.3 | SE202202.024 | LB192016 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |
| BH25/0.1-0.3 | SE202202.025 | LB192016 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |
| BH26/0.1-0.3 | SE202202.026 | LB192016 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |
| BH27/0.1-0.3 | SE202202.027 | LB192016 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |
| SP1/0.1-0.3  | SE202202.028 | LB192016 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |
| QC1          | SE202202.029 | LB192016 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |
| QC2          | SE202202.030 | LB192016 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 03 Feb 2020  | 31 Jan 2020 |

### OC Pesticides in Soil

Method: ME-(AU)-ENVJAN420

| Sample Name  | Sample No.   | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due | Analysed    |
|--------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| BH1/0.1-0.3  | SE202202.001 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH2/0.1-0.3  | SE202202.002 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH3/0.1-0.3  | SE202202.003 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH4/0.1-0.3  | SE202202.004 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH5/0.1-0.3  | SE202202.005 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH6/0.1-0.3  | SE202202.006 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH7/0.1-0.3  | SE202202.007 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH8/0.1-0.3  | SE202202.008 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH9/0.1-0.3  | SE202202.009 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH10/0.1-0.3 | SE202202.010 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH11/0.1-0.3 | SE202202.011 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH12/0.1-0.3 | SE202202.012 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH13/0.1-0.3 | SE202202.013 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH14/0.1-0.3 | SE202202.014 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH15/0.1-0.3 | SE202202.015 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH16/0.1-0.3 | SE202202.016 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH17/0.1-0.3 | SE202202.017 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH18/0.1-0.3 | SE202202.018 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH19/0.1-0.3 | SE202202.019 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

## OC Pesticides in Soil (continued)

Method: ME-(AU)-ENVJAN420

| Sample Name  | Sample No.   | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due | Analysed    |
|--------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| BH20/0.1-0.3 | SE202202.020 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH21/0.1-0.3 | SE202202.021 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH22/0.1-0.3 | SE202202.022 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH23/0.1-0.3 | SE202202.023 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH24/0.1-0.3 | SE202202.024 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH25/0.1-0.3 | SE202202.025 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH26/0.1-0.3 | SE202202.026 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH27/0.1-0.3 | SE202202.027 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| SP1/0.1-0.3  | SE202202.028 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| QC1          | SE202202.029 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| QC2          | SE202202.030 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |

## OP Pesticides in Soil

Method: ME-(AU)-ENVJAN420

| Sample Name  | Sample No.   | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due | Analysed    |
|--------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| BH1/0.1-0.3  | SE202202.001 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH2/0.1-0.3  | SE202202.002 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH3/0.1-0.3  | SE202202.003 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH4/0.1-0.3  | SE202202.004 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH5/0.1-0.3  | SE202202.005 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH6/0.1-0.3  | SE202202.006 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH7/0.1-0.3  | SE202202.007 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH8/0.1-0.3  | SE202202.008 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH9/0.1-0.3  | SE202202.009 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH10/0.1-0.3 | SE202202.010 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH11/0.1-0.3 | SE202202.011 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH12/0.1-0.3 | SE202202.012 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH13/0.1-0.3 | SE202202.013 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH14/0.1-0.3 | SE202202.014 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH15/0.1-0.3 | SE202202.015 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH16/0.1-0.3 | SE202202.016 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH17/0.1-0.3 | SE202202.017 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH18/0.1-0.3 | SE202202.018 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH19/0.1-0.3 | SE202202.019 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH20/0.1-0.3 | SE202202.020 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH21/0.1-0.3 | SE202202.021 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH22/0.1-0.3 | SE202202.022 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH23/0.1-0.3 | SE202202.023 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH24/0.1-0.3 | SE202202.024 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH25/0.1-0.3 | SE202202.025 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH26/0.1-0.3 | SE202202.026 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH27/0.1-0.3 | SE202202.027 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| SP1/0.1-0.3  | SE202202.028 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| QC1          | SE202202.029 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| QC2          | SE202202.030 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-ENVJAN420

| Sample Name  | Sample No.   | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due | Analysed    |
|--------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| BH1/0.1-0.3  | SE202202.001 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH2/0.1-0.3  | SE202202.002 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH3/0.1-0.3  | SE202202.003 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH4/0.1-0.3  | SE202202.004 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH5/0.1-0.3  | SE202202.005 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH6/0.1-0.3  | SE202202.006 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH7/0.1-0.3  | SE202202.007 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH8/0.1-0.3  | SE202202.008 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH9/0.1-0.3  | SE202202.009 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH10/0.1-0.3 | SE202202.010 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH11/0.1-0.3 | SE202202.011 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH12/0.1-0.3 | SE202202.012 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH13/0.1-0.3 | SE202202.013 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH14/0.1-0.3 | SE202202.014 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

| Sample Name  | Sample No.   | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due | Analysed    |
|--------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| BH15/0.1-0.3 | SE202202.015 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH16/0.1-0.3 | SE202202.016 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH17/0.1-0.3 | SE202202.017 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH18/0.1-0.3 | SE202202.018 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH19/0.1-0.3 | SE202202.019 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH20/0.1-0.3 | SE202202.020 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH21/0.1-0.3 | SE202202.021 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH22/0.1-0.3 | SE202202.022 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH23/0.1-0.3 | SE202202.023 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH24/0.1-0.3 | SE202202.024 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH25/0.1-0.3 | SE202202.025 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH26/0.1-0.3 | SE202202.026 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH27/0.1-0.3 | SE202202.027 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| SP1/0.1-0.3  | SE202202.028 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| QC1          | SE202202.029 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| QC2          | SE202202.030 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |

## PCBs in Soil

Method: ME-(AU)-[ENV]AN420

| Sample Name  | Sample No.   | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due | Analysed    |
|--------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| BH1/0.1-0.3  | SE202202.001 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH2/0.1-0.3  | SE202202.002 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH3/0.1-0.3  | SE202202.003 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH4/0.1-0.3  | SE202202.004 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH5/0.1-0.3  | SE202202.005 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH6/0.1-0.3  | SE202202.006 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH7/0.1-0.3  | SE202202.007 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH8/0.1-0.3  | SE202202.008 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH9/0.1-0.3  | SE202202.009 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH10/0.1-0.3 | SE202202.010 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH11/0.1-0.3 | SE202202.011 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH12/0.1-0.3 | SE202202.012 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH13/0.1-0.3 | SE202202.013 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH14/0.1-0.3 | SE202202.014 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH15/0.1-0.3 | SE202202.015 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH16/0.1-0.3 | SE202202.016 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH17/0.1-0.3 | SE202202.017 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH18/0.1-0.3 | SE202202.018 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH19/0.1-0.3 | SE202202.019 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH20/0.1-0.3 | SE202202.020 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH21/0.1-0.3 | SE202202.021 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH22/0.1-0.3 | SE202202.022 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH23/0.1-0.3 | SE202202.023 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH24/0.1-0.3 | SE202202.024 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH25/0.1-0.3 | SE202202.025 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH26/0.1-0.3 | SE202202.026 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| BH27/0.1-0.3 | SE202202.027 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| SP1/0.1-0.3  | SE202202.028 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| QC1          | SE202202.029 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |
| QC2          | SE202202.030 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 04 Feb 2020 |

## Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

| Sample Name | Sample No.   | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due | Analysed    |
|-------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| BH1/0.1-0.3 | SE202202.001 | LB192092 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |
| BH2/0.1-0.3 | SE202202.002 | LB192092 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |
| BH3/0.1-0.3 | SE202202.003 | LB192092 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |
| BH4/0.1-0.3 | SE202202.004 | LB192092 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |
| BH5/0.1-0.3 | SE202202.005 | LB192092 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |
| BH6/0.1-0.3 | SE202202.006 | LB192092 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |
| BH7/0.1-0.3 | SE202202.007 | LB192092 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |
| BH8/0.1-0.3 | SE202202.008 | LB192092 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |
| BH9/0.1-0.3 | SE202202.009 | LB192092 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

## Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued)

Method: ME-(AU)-[ENV]AN040/AN320

| Sample Name  | Sample No.   | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due | Analysed    |
|--------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| BH10/0.1-0.3 | SE202202.010 | LB192092 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |
| BH11/0.1-0.3 | SE202202.011 | LB192092 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |
| BH12/0.1-0.3 | SE202202.012 | LB192092 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |
| BH13/0.1-0.3 | SE202202.013 | LB192092 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |
| BH14/0.1-0.3 | SE202202.014 | LB192092 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |
| BH15/0.1-0.3 | SE202202.015 | LB192092 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |
| BH16/0.1-0.3 | SE202202.016 | LB192093 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |
| BH17/0.1-0.3 | SE202202.017 | LB192093 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |
| BH18/0.1-0.3 | SE202202.018 | LB192093 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |
| BH19/0.1-0.3 | SE202202.019 | LB192093 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |
| BH20/0.1-0.3 | SE202202.020 | LB192093 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |
| BH21/0.1-0.3 | SE202202.021 | LB192093 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |
| BH22/0.1-0.3 | SE202202.022 | LB192093 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |
| BH23/0.1-0.3 | SE202202.023 | LB192093 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |
| BH24/0.1-0.3 | SE202202.024 | LB192093 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |
| BH25/0.1-0.3 | SE202202.025 | LB192093 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |
| BH26/0.1-0.3 | SE202202.026 | LB192093 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |
| BH27/0.1-0.3 | SE202202.027 | LB192093 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |
| SP1/0.1-0.3  | SE202202.028 | LB192093 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |
| QC1          | SE202202.029 | LB192093 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |
| QC2          | SE202202.030 | LB192093 | 28 Jan 2020 | 28 Jan 2020 | 26 Jul 2020    | 30 Jan 2020 | 26 Jul 2020  | 03 Feb 2020 |

## TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

| Sample Name  | Sample No.   | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due | Analysed    |
|--------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| BH1/0.1-0.3  | SE202202.001 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH2/0.1-0.3  | SE202202.002 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH3/0.1-0.3  | SE202202.003 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH4/0.1-0.3  | SE202202.004 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH5/0.1-0.3  | SE202202.005 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH6/0.1-0.3  | SE202202.006 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH7/0.1-0.3  | SE202202.007 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH8/0.1-0.3  | SE202202.008 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH9/0.1-0.3  | SE202202.009 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH10/0.1-0.3 | SE202202.010 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH11/0.1-0.3 | SE202202.011 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH12/0.1-0.3 | SE202202.012 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH13/0.1-0.3 | SE202202.013 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH14/0.1-0.3 | SE202202.014 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH15/0.1-0.3 | SE202202.015 | LB192011 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 31 Jan 2020 |
| BH16/0.1-0.3 | SE202202.016 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH17/0.1-0.3 | SE202202.017 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH18/0.1-0.3 | SE202202.018 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH19/0.1-0.3 | SE202202.019 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH20/0.1-0.3 | SE202202.020 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH21/0.1-0.3 | SE202202.021 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH22/0.1-0.3 | SE202202.022 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH23/0.1-0.3 | SE202202.023 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH24/0.1-0.3 | SE202202.024 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH25/0.1-0.3 | SE202202.025 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH26/0.1-0.3 | SE202202.026 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH27/0.1-0.3 | SE202202.027 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| SP1/0.1-0.3  | SE202202.028 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| QC1          | SE202202.029 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| QC2          | SE202202.030 | LB192012 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |

## VOC's in Soil

Method: ME-(AU)-[ENV]AN433

| Sample Name | Sample No.   | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due | Analysed    |
|-------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| BH1/0.1-0.3 | SE202202.001 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH2/0.1-0.3 | SE202202.002 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH3/0.1-0.3 | SE202202.003 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH4/0.1-0.3 | SE202202.004 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

## VOC's in Soil (continued)

Method: ME-(AU)-ENVJAN433

| Sample Name  | Sample No.   | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due | Analysed    |
|--------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| BH5/0.1-0.3  | SE202202.005 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH6/0.1-0.3  | SE202202.006 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH7/0.1-0.3  | SE202202.007 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH8/0.1-0.3  | SE202202.008 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH9/0.1-0.3  | SE202202.009 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH10/0.1-0.3 | SE202202.010 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH11/0.1-0.3 | SE202202.011 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH12/0.1-0.3 | SE202202.012 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH13/0.1-0.3 | SE202202.013 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH14/0.1-0.3 | SE202202.014 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH15/0.1-0.3 | SE202202.015 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH16/0.1-0.3 | SE202202.016 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH17/0.1-0.3 | SE202202.017 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH18/0.1-0.3 | SE202202.018 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH19/0.1-0.3 | SE202202.019 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH20/0.1-0.3 | SE202202.020 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH21/0.1-0.3 | SE202202.021 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH22/0.1-0.3 | SE202202.022 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH23/0.1-0.3 | SE202202.023 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH24/0.1-0.3 | SE202202.024 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH25/0.1-0.3 | SE202202.025 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH26/0.1-0.3 | SE202202.026 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH27/0.1-0.3 | SE202202.027 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| SP1/0.1-0.3  | SE202202.028 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| QC1          | SE202202.029 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| QC2          | SE202202.030 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |

## Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-ENVJAN433

| Sample Name  | Sample No.   | QC Ref   | Sampled     | Received    | Extraction Due | Extracted   | Analysis Due | Analysed    |
|--------------|--------------|----------|-------------|-------------|----------------|-------------|--------------|-------------|
| BH1/0.1-0.3  | SE202202.001 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH2/0.1-0.3  | SE202202.002 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH3/0.1-0.3  | SE202202.003 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH4/0.1-0.3  | SE202202.004 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH5/0.1-0.3  | SE202202.005 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH6/0.1-0.3  | SE202202.006 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH7/0.1-0.3  | SE202202.007 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH8/0.1-0.3  | SE202202.008 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH9/0.1-0.3  | SE202202.009 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH10/0.1-0.3 | SE202202.010 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH11/0.1-0.3 | SE202202.011 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH12/0.1-0.3 | SE202202.012 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH13/0.1-0.3 | SE202202.013 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH14/0.1-0.3 | SE202202.014 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH15/0.1-0.3 | SE202202.015 | LB192008 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH16/0.1-0.3 | SE202202.016 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH17/0.1-0.3 | SE202202.017 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH18/0.1-0.3 | SE202202.018 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH19/0.1-0.3 | SE202202.019 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH20/0.1-0.3 | SE202202.020 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH21/0.1-0.3 | SE202202.021 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH22/0.1-0.3 | SE202202.022 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH23/0.1-0.3 | SE202202.023 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH24/0.1-0.3 | SE202202.024 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH25/0.1-0.3 | SE202202.025 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH26/0.1-0.3 | SE202202.026 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| BH27/0.1-0.3 | SE202202.027 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| SP1/0.1-0.3  | SE202202.028 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| QC1          | SE202202.029 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |
| QC2          | SE202202.030 | LB192009 | 28 Jan 2020 | 28 Jan 2020 | 11 Feb 2020    | 29 Jan 2020 | 09 Mar 2020  | 03 Feb 2020 |

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## OC Pesticides In Soil

Method: ME-(AU)-[ENV]AN420

| Parameter                               | Sample Name  | Sample Number | Units | Criteria  | Recovery % |
|-----------------------------------------|--------------|---------------|-------|-----------|------------|
| Tetrachloro-m-xylene (TCMX) (Surrogate) | BH9/0.1-0.3  | SE202202.009  | %     | 60 - 130% | 95         |
|                                         | BH10/0.1-0.3 | SE202202.010  | %     | 60 - 130% | 89         |
|                                         | BH11/0.1-0.3 | SE202202.011  | %     | 60 - 130% | 89         |
|                                         | BH12/0.1-0.3 | SE202202.012  | %     | 60 - 130% | 91         |
|                                         | BH13/0.1-0.3 | SE202202.013  | %     | 60 - 130% | 93         |
|                                         | BH14/0.1-0.3 | SE202202.014  | %     | 60 - 130% | 91         |
|                                         | BH16/0.1-0.3 | SE202202.016  | %     | 60 - 130% | 92         |
|                                         | BH17/0.1-0.3 | SE202202.017  | %     | 60 - 130% | 92         |
|                                         | BH22/0.1-0.3 | SE202202.022  | %     | 60 - 130% | 89         |
|                                         | BH23/0.1-0.3 | SE202202.023  | %     | 60 - 130% | 87         |
|                                         | BH24/0.1-0.3 | SE202202.024  | %     | 60 - 130% | 88         |
|                                         | SP1/0.1-0.3  | SE202202.028  | %     | 60 - 130% | 86         |
|                                         | QC1          | SE202202.029  | %     | 60 - 130% | 91         |

## OP Pesticides In Soil

Method: ME-(AU)-[ENV]AN420

| Parameter                    | Sample Name  | Sample Number | Units | Criteria  | Recovery % |
|------------------------------|--------------|---------------|-------|-----------|------------|
| 2-fluorobiphenyl (Surrogate) | BH9/0.1-0.3  | SE202202.009  | %     | 60 - 130% | 83         |
|                              | BH10/0.1-0.3 | SE202202.010  | %     | 60 - 130% | 86         |
|                              | BH11/0.1-0.3 | SE202202.011  | %     | 60 - 130% | 70         |
|                              | BH12/0.1-0.3 | SE202202.012  | %     | 60 - 130% | 90         |
|                              | BH13/0.1-0.3 | SE202202.013  | %     | 60 - 130% | 86         |
|                              | BH14/0.1-0.3 | SE202202.014  | %     | 60 - 130% | 87         |
|                              | BH16/0.1-0.3 | SE202202.016  | %     | 60 - 130% | 113        |
|                              | BH17/0.1-0.3 | SE202202.017  | %     | 60 - 130% | 89         |
|                              | BH22/0.1-0.3 | SE202202.022  | %     | 60 - 130% | 91         |
|                              | BH23/0.1-0.3 | SE202202.023  | %     | 60 - 130% | 80         |
|                              | BH24/0.1-0.3 | SE202202.024  | %     | 60 - 130% | 73         |
|                              | SP1/0.1-0.3  | SE202202.028  | %     | 60 - 130% | 84         |
|                              | QC1          | SE202202.029  | %     | 60 - 130% | 80         |
| d14-p-terphenyl (Surrogate)  | BH9/0.1-0.3  | SE202202.009  | %     | 60 - 130% | 74         |
|                              | BH10/0.1-0.3 | SE202202.010  | %     | 60 - 130% | 78         |
|                              | BH11/0.1-0.3 | SE202202.011  | %     | 60 - 130% | 72         |
|                              | BH12/0.1-0.3 | SE202202.012  | %     | 60 - 130% | 83         |
|                              | BH13/0.1-0.3 | SE202202.013  | %     | 60 - 130% | 77         |
|                              | BH14/0.1-0.3 | SE202202.014  | %     | 60 - 130% | 76         |
|                              | BH16/0.1-0.3 | SE202202.016  | %     | 60 - 130% | 114        |
|                              | BH17/0.1-0.3 | SE202202.017  | %     | 60 - 130% | 83         |
|                              | BH22/0.1-0.3 | SE202202.022  | %     | 60 - 130% | 89         |
|                              | BH23/0.1-0.3 | SE202202.023  | %     | 60 - 130% | 84         |
|                              | BH24/0.1-0.3 | SE202202.024  | %     | 60 - 130% | 70         |
|                              | SP1/0.1-0.3  | SE202202.028  | %     | 60 - 130% | 86         |
|                              | QC1          | SE202202.029  | %     | 60 - 130% | 85         |

## PAH (Polynuclear Aromatic Hydrocarbons) In Soil

Method: ME-(AU)-[ENV]AN420

| Parameter                    | Sample Name  | Sample Number | Units | Criteria  | Recovery % |
|------------------------------|--------------|---------------|-------|-----------|------------|
| 2-fluorobiphenyl (Surrogate) | BH9/0.1-0.3  | SE202202.009  | %     | 70 - 130% | 83         |
|                              | BH10/0.1-0.3 | SE202202.010  | %     | 70 - 130% | 86         |
|                              | BH11/0.1-0.3 | SE202202.011  | %     | 70 - 130% | 70         |
|                              | BH12/0.1-0.3 | SE202202.012  | %     | 70 - 130% | 90         |
|                              | BH13/0.1-0.3 | SE202202.013  | %     | 70 - 130% | 86         |
|                              | BH14/0.1-0.3 | SE202202.014  | %     | 70 - 130% | 87         |
|                              | BH15/0.1-0.3 | SE202202.015  | %     | 70 - 130% | 86         |
|                              | BH16/0.1-0.3 | SE202202.016  | %     | 70 - 130% | 113        |
|                              | BH17/0.1-0.3 | SE202202.017  | %     | 70 - 130% | 89         |
|                              | BH18/0.1-0.3 | SE202202.018  | %     | 70 - 130% | 85         |
|                              | BH19/0.1-0.3 | SE202202.019  | %     | 70 - 130% | 84         |
|                              | BH20/0.1-0.3 | SE202202.020  | %     | 70 - 130% | 89         |
|                              | BH21/0.1-0.3 | SE202202.021  | %     | 70 - 130% | 77         |
|                              | BH22/0.1-0.3 | SE202202.022  | %     | 70 - 130% | 91         |
|                              | BH23/0.1-0.3 | SE202202.023  | %     | 70 - 130% | 80         |
|                              | BH24/0.1-0.3 | SE202202.024  | %     | 70 - 130% | 73         |
|                              | BH25/0.1-0.3 | SE202202.025  | %     | 70 - 130% | 76         |

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

| Parameter                    | Sample Name  | Sample Number | Units | Criteria  | Recovery % |
|------------------------------|--------------|---------------|-------|-----------|------------|
| 2-fluorobiphenyl (Surrogate) | BH26/0.1-0.3 | SE202202.026  | %     | 70 - 130% | 76         |
|                              | BH27/0.1-0.3 | SE202202.027  | %     | 70 - 130% | 79         |
|                              | SP1/0.1-0.3  | SE202202.028  | %     | 70 - 130% | 84         |
|                              | QC1          | SE202202.029  | %     | 70 - 130% | 80         |
|                              | QC2          | SE202202.030  | %     | 70 - 130% | 88         |
| d14-p-terphenyl (Surrogate)  | BH9/0.1-0.3  | SE202202.009  | %     | 70 - 130% | 74         |
|                              | BH10/0.1-0.3 | SE202202.010  | %     | 70 - 130% | 78         |
|                              | BH11/0.1-0.3 | SE202202.011  | %     | 70 - 130% | 72         |
|                              | BH12/0.1-0.3 | SE202202.012  | %     | 70 - 130% | 83         |
|                              | BH13/0.1-0.3 | SE202202.013  | %     | 70 - 130% | 77         |
|                              | BH14/0.1-0.3 | SE202202.014  | %     | 70 - 130% | 76         |
|                              | BH15/0.1-0.3 | SE202202.015  | %     | 70 - 130% | 76         |
|                              | BH16/0.1-0.3 | SE202202.016  | %     | 70 - 130% | 114        |
|                              | BH17/0.1-0.3 | SE202202.017  | %     | 70 - 130% | 83         |
|                              | BH18/0.1-0.3 | SE202202.018  | %     | 70 - 130% | 88         |
|                              | BH19/0.1-0.3 | SE202202.019  | %     | 70 - 130% | 89         |
|                              | BH20/0.1-0.3 | SE202202.020  | %     | 70 - 130% | 86         |
|                              | BH21/0.1-0.3 | SE202202.021  | %     | 70 - 130% | 80         |
|                              | BH22/0.1-0.3 | SE202202.022  | %     | 70 - 130% | 89         |
|                              | BH23/0.1-0.3 | SE202202.023  | %     | 70 - 130% | 84         |
|                              | BH24/0.1-0.3 | SE202202.024  | %     | 70 - 130% | 70         |
|                              | BH25/0.1-0.3 | SE202202.025  | %     | 70 - 130% | 80         |
|                              | BH26/0.1-0.3 | SE202202.026  | %     | 70 - 130% | 76         |
|                              | BH27/0.1-0.3 | SE202202.027  | %     | 70 - 130% | 78         |
|                              | SP1/0.1-0.3  | SE202202.028  | %     | 70 - 130% | 86         |
|                              | QC1          | SE202202.029  | %     | 70 - 130% | 85         |
|                              | QC2          | SE202202.030  | %     | 70 - 130% | 84         |
| d5-nitrobenzene (Surrogate)  | BH9/0.1-0.3  | SE202202.009  | %     | 70 - 130% | 76         |
|                              | BH10/0.1-0.3 | SE202202.010  | %     | 70 - 130% | 78         |
|                              | BH11/0.1-0.3 | SE202202.011  | %     | 70 - 130% | 72         |
|                              | BH12/0.1-0.3 | SE202202.012  | %     | 70 - 130% | 83         |
|                              | BH13/0.1-0.3 | SE202202.013  | %     | 70 - 130% | 80         |
|                              | BH14/0.1-0.3 | SE202202.014  | %     | 70 - 130% | 80         |
|                              | BH15/0.1-0.3 | SE202202.015  | %     | 70 - 130% | 81         |
|                              | BH16/0.1-0.3 | SE202202.016  | %     | 70 - 130% | 107        |
|                              | BH17/0.1-0.3 | SE202202.017  | %     | 70 - 130% | 77         |
|                              | BH18/0.1-0.3 | SE202202.018  | %     | 70 - 130% | 80         |
|                              | BH19/0.1-0.3 | SE202202.019  | %     | 70 - 130% | 78         |
|                              | BH20/0.1-0.3 | SE202202.020  | %     | 70 - 130% | 82         |
|                              | BH21/0.1-0.3 | SE202202.021  | %     | 70 - 130% | 73         |
|                              | BH22/0.1-0.3 | SE202202.022  | %     | 70 - 130% | 85         |
|                              | BH23/0.1-0.3 | SE202202.023  | %     | 70 - 130% | 81         |
|                              | BH24/0.1-0.3 | SE202202.024  | %     | 70 - 130% | 67         |
|                              | BH25/0.1-0.3 | SE202202.025  | %     | 70 - 130% | 75         |
|                              | BH26/0.1-0.3 | SE202202.026  | %     | 70 - 130% | 76         |
|                              | BH27/0.1-0.3 | SE202202.027  | %     | 70 - 130% | 77         |
|                              | SP1/0.1-0.3  | SE202202.028  | %     | 70 - 130% | 79         |
|                              | QC1          | SE202202.029  | %     | 70 - 130% | 83         |
|                              | QC2          | SE202202.030  | %     | 70 - 130% | 80         |

## PCBs in Soil

Method: ME-(AU)-[ENV]AN420

| Parameter                               | Sample Name  | Sample Number | Units | Criteria  | Recovery % |
|-----------------------------------------|--------------|---------------|-------|-----------|------------|
| Tetrachloro-m-xylene (TCMX) (Surrogate) | BH9/0.1-0.3  | SE202202.009  | %     | 60 - 130% | 95         |
|                                         | BH10/0.1-0.3 | SE202202.010  | %     | 60 - 130% | 89         |
|                                         | BH11/0.1-0.3 | SE202202.011  | %     | 60 - 130% | 89         |
|                                         | BH12/0.1-0.3 | SE202202.012  | %     | 60 - 130% | 91         |
|                                         | BH13/0.1-0.3 | SE202202.013  | %     | 60 - 130% | 93         |
|                                         | BH14/0.1-0.3 | SE202202.014  | %     | 60 - 130% | 91         |
|                                         | BH16/0.1-0.3 | SE202202.016  | %     | 60 - 130% | 92         |
|                                         | BH17/0.1-0.3 | SE202202.017  | %     | 60 - 130% | 92         |
|                                         | BH22/0.1-0.3 | SE202202.022  | %     | 60 - 130% | 89         |

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## PCBs in Soil (continued)

Method: ME-(AU)-[ENV]AN420

| Parameter                               | Sample Name  | Sample Number | Units | Criteria  | Recovery % |
|-----------------------------------------|--------------|---------------|-------|-----------|------------|
| Tetrachloro-m-xylene (TCMX) (Surrogate) | BH23/0.1-0.3 | SE202202.023  | %     | 60 - 130% | 87         |
|                                         | BH24/0.1-0.3 | SE202202.024  | %     | 60 - 130% | 88         |
|                                         | SP1/0.1-0.3  | SE202202.028  | %     | 60 - 130% | 86         |
|                                         | QC1          | SE202202.029  | %     | 60 - 130% | 91         |

## VOC's in Soil

Method: ME-(AU)-[ENV]AN433

| Parameter                         | Sample Name  | Sample Number | Units | Criteria  | Recovery % |
|-----------------------------------|--------------|---------------|-------|-----------|------------|
| Bromofluorobenzene (Surrogate)    | BH1/0.1-0.3  | SE202202.001  | %     | 60 - 130% | 99         |
|                                   | BH2/0.1-0.3  | SE202202.002  | %     | 60 - 130% | 96         |
|                                   | BH3/0.1-0.3  | SE202202.003  | %     | 60 - 130% | 99         |
|                                   | BH4/0.1-0.3  | SE202202.004  | %     | 60 - 130% | 101        |
|                                   | BH5/0.1-0.3  | SE202202.005  | %     | 60 - 130% | 101        |
|                                   | BH6/0.1-0.3  | SE202202.006  | %     | 60 - 130% | 101        |
|                                   | BH7/0.1-0.3  | SE202202.007  | %     | 60 - 130% | 101        |
|                                   | BH8/0.1-0.3  | SE202202.008  | %     | 60 - 130% | 97         |
|                                   | BH9/0.1-0.3  | SE202202.009  | %     | 60 - 130% | 100        |
|                                   | BH10/0.1-0.3 | SE202202.010  | %     | 60 - 130% | 103        |
|                                   | BH11/0.1-0.3 | SE202202.011  | %     | 60 - 130% | 100        |
|                                   | BH12/0.1-0.3 | SE202202.012  | %     | 60 - 130% | 97         |
|                                   | BH13/0.1-0.3 | SE202202.013  | %     | 60 - 130% | 98         |
|                                   | BH14/0.1-0.3 | SE202202.014  | %     | 60 - 130% | 99         |
|                                   | BH15/0.1-0.3 | SE202202.015  | %     | 60 - 130% | 96         |
|                                   | BH16/0.1-0.3 | SE202202.016  | %     | 60 - 130% | 85         |
|                                   | BH17/0.1-0.3 | SE202202.017  | %     | 60 - 130% | 82         |
|                                   | BH18/0.1-0.3 | SE202202.018  | %     | 60 - 130% | 60         |
|                                   | BH19/0.1-0.3 | SE202202.019  | %     | 60 - 130% | 56 ①       |
|                                   | BH20/0.1-0.3 | SE202202.020  | %     | 60 - 130% | 83         |
|                                   | BH21/0.1-0.3 | SE202202.021  | %     | 60 - 130% | 78         |
|                                   | BH22/0.1-0.3 | SE202202.022  | %     | 60 - 130% | 86         |
|                                   | BH23/0.1-0.3 | SE202202.023  | %     | 60 - 130% | 62         |
|                                   | BH24/0.1-0.3 | SE202202.024  | %     | 60 - 130% | 81         |
|                                   | BH25/0.1-0.3 | SE202202.025  | %     | 60 - 130% | 76         |
|                                   | BH26/0.1-0.3 | SE202202.026  | %     | 60 - 130% | 93         |
|                                   | BH27/0.1-0.3 | SE202202.027  | %     | 60 - 130% | 87         |
|                                   | SP1/0.1-0.3  | SE202202.028  | %     | 60 - 130% | 84         |
|                                   | QC1          | SE202202.029  | %     | 60 - 130% | 88         |
|                                   | QC2          | SE202202.030  | %     | 60 - 130% | 83         |
| d4-1,2-dichloroethane (Surrogate) | BH1/0.1-0.3  | SE202202.001  | %     | 60 - 130% | 107        |
|                                   | BH2/0.1-0.3  | SE202202.002  | %     | 60 - 130% | 109        |
|                                   | BH3/0.1-0.3  | SE202202.003  | %     | 60 - 130% | 108        |
|                                   | BH4/0.1-0.3  | SE202202.004  | %     | 60 - 130% | 113        |
|                                   | BH5/0.1-0.3  | SE202202.005  | %     | 60 - 130% | 115        |
|                                   | BH6/0.1-0.3  | SE202202.006  | %     | 60 - 130% | 110        |
|                                   | BH7/0.1-0.3  | SE202202.007  | %     | 60 - 130% | 110        |
|                                   | BH8/0.1-0.3  | SE202202.008  | %     | 60 - 130% | 107        |
|                                   | BH9/0.1-0.3  | SE202202.009  | %     | 60 - 130% | 112        |
|                                   | BH10/0.1-0.3 | SE202202.010  | %     | 60 - 130% | 115        |
|                                   | BH11/0.1-0.3 | SE202202.011  | %     | 60 - 130% | 112        |
|                                   | BH12/0.1-0.3 | SE202202.012  | %     | 60 - 130% | 109        |
|                                   | BH13/0.1-0.3 | SE202202.013  | %     | 60 - 130% | 113        |
|                                   | BH14/0.1-0.3 | SE202202.014  | %     | 60 - 130% | 112        |
|                                   | BH15/0.1-0.3 | SE202202.015  | %     | 60 - 130% | 109        |
|                                   | BH16/0.1-0.3 | SE202202.016  | %     | 60 - 130% | 80         |
|                                   | BH17/0.1-0.3 | SE202202.017  | %     | 60 - 130% | 81         |
|                                   | BH18/0.1-0.3 | SE202202.018  | %     | 60 - 130% | 73         |
|                                   | BH19/0.1-0.3 | SE202202.019  | %     | 60 - 130% | 73         |
|                                   | BH20/0.1-0.3 | SE202202.020  | %     | 60 - 130% | 81         |
|                                   | BH21/0.1-0.3 | SE202202.021  | %     | 60 - 130% | 76         |
|                                   | BH22/0.1-0.3 | SE202202.022  | %     | 60 - 130% | 83         |
|                                   | BH23/0.1-0.3 | SE202202.023  | %     | 60 - 130% | 72         |
|                                   | BH24/0.1-0.3 | SE202202.024  | %     | 60 - 130% | 80         |

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## VOC's in Soil (continued)

Method: ME-(AU)-[ENV]AN433

| Parameter                         | Sample Name  | Sample Number | Units | Criteria  | Recovery % |
|-----------------------------------|--------------|---------------|-------|-----------|------------|
| d4-1,2-dichloroethane (Surrogate) | BH25/0.1-0.3 | SE202202.025  | %     | 60 - 130% | 76         |
|                                   | BH26/0.1-0.3 | SE202202.026  | %     | 60 - 130% | 87         |
|                                   | BH27/0.1-0.3 | SE202202.027  | %     | 60 - 130% | 83         |
|                                   | SP1/0.1-0.3  | SE202202.028  | %     | 60 - 130% | 84         |
|                                   | QC1          | SE202202.029  | %     | 60 - 130% | 86         |
|                                   | QC2          | SE202202.030  | %     | 60 - 130% | 81         |
| d8-toluene (Surrogate)            | BH1/0.1-0.3  | SE202202.001  | %     | 60 - 130% | 105        |
|                                   | BH2/0.1-0.3  | SE202202.002  | %     | 60 - 130% | 106        |
|                                   | BH3/0.1-0.3  | SE202202.003  | %     | 60 - 130% | 105        |
|                                   | BH4/0.1-0.3  | SE202202.004  | %     | 60 - 130% | 110        |
|                                   | BH5/0.1-0.3  | SE202202.005  | %     | 60 - 130% | 112        |
|                                   | BH6/0.1-0.3  | SE202202.006  | %     | 60 - 130% | 108        |
|                                   | BH7/0.1-0.3  | SE202202.007  | %     | 60 - 130% | 107        |
|                                   | BH8/0.1-0.3  | SE202202.008  | %     | 60 - 130% | 104        |
|                                   | BH9/0.1-0.3  | SE202202.009  | %     | 60 - 130% | 110        |
|                                   | BH10/0.1-0.3 | SE202202.010  | %     | 60 - 130% | 113        |
|                                   | BH11/0.1-0.3 | SE202202.011  | %     | 60 - 130% | 110        |
|                                   | BH12/0.1-0.3 | SE202202.012  | %     | 60 - 130% | 106        |
|                                   | BH13/0.1-0.3 | SE202202.013  | %     | 60 - 130% | 110        |
|                                   | BH14/0.1-0.3 | SE202202.014  | %     | 60 - 130% | 108        |
|                                   | BH15/0.1-0.3 | SE202202.015  | %     | 60 - 130% | 105        |
|                                   | BH16/0.1-0.3 | SE202202.016  | %     | 60 - 130% | 83         |
|                                   | BH17/0.1-0.3 | SE202202.017  | %     | 60 - 130% | 83         |
|                                   | BH18/0.1-0.3 | SE202202.018  | %     | 60 - 130% | 73         |
|                                   | BH19/0.1-0.3 | SE202202.019  | %     | 60 - 130% | 71         |
|                                   | BH20/0.1-0.3 | SE202202.020  | %     | 60 - 130% | 85         |
|                                   | BH21/0.1-0.3 | SE202202.021  | %     | 60 - 130% | 79         |
|                                   | BH22/0.1-0.3 | SE202202.022  | %     | 60 - 130% | 86         |
|                                   | BH23/0.1-0.3 | SE202202.023  | %     | 60 - 130% | 72         |
|                                   | BH24/0.1-0.3 | SE202202.024  | %     | 60 - 130% | 82         |
|                                   | BH25/0.1-0.3 | SE202202.025  | %     | 60 - 130% | 79         |
|                                   | BH26/0.1-0.3 | SE202202.026  | %     | 60 - 130% | 88         |
|                                   | BH27/0.1-0.3 | SE202202.027  | %     | 60 - 130% | 88         |
|                                   | SP1/0.1-0.3  | SE202202.028  | %     | 60 - 130% | 88         |
|                                   | QC1          | SE202202.029  | %     | 60 - 130% | 91         |
|                                   | QC2          | SE202202.030  | %     | 60 - 130% | 86         |

## Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

| Parameter                      | Sample Name  | Sample Number | Units | Criteria  | Recovery % |
|--------------------------------|--------------|---------------|-------|-----------|------------|
| Bromofluorobenzene (Surrogate) | BH1/0.1-0.3  | SE202202.001  | %     | 60 - 130% | 99         |
|                                | BH2/0.1-0.3  | SE202202.002  | %     | 60 - 130% | 96         |
|                                | BH3/0.1-0.3  | SE202202.003  | %     | 60 - 130% | 99         |
|                                | BH4/0.1-0.3  | SE202202.004  | %     | 60 - 130% | 101        |
|                                | BH5/0.1-0.3  | SE202202.005  | %     | 60 - 130% | 101        |
|                                | BH6/0.1-0.3  | SE202202.006  | %     | 60 - 130% | 101        |
|                                | BH7/0.1-0.3  | SE202202.007  | %     | 60 - 130% | 101        |
|                                | BH8/0.1-0.3  | SE202202.008  | %     | 60 - 130% | 97         |
|                                | BH9/0.1-0.3  | SE202202.009  | %     | 60 - 130% | 100        |
|                                | BH10/0.1-0.3 | SE202202.010  | %     | 60 - 130% | 103        |
|                                | BH11/0.1-0.3 | SE202202.011  | %     | 60 - 130% | 100        |
|                                | BH12/0.1-0.3 | SE202202.012  | %     | 60 - 130% | 97         |
|                                | BH13/0.1-0.3 | SE202202.013  | %     | 60 - 130% | 98         |
|                                | BH14/0.1-0.3 | SE202202.014  | %     | 60 - 130% | 99         |
|                                | BH15/0.1-0.3 | SE202202.015  | %     | 60 - 130% | 96         |
|                                | BH16/0.1-0.3 | SE202202.016  | %     | 60 - 130% | 85         |
|                                | BH17/0.1-0.3 | SE202202.017  | %     | 60 - 130% | 82         |
|                                | BH18/0.1-0.3 | SE202202.018  | %     | 60 - 130% | 60         |
|                                | BH19/0.1-0.3 | SE202202.019  | %     | 60 - 130% | 56         |
|                                | BH20/0.1-0.3 | SE202202.020  | %     | 60 - 130% | 83         |
|                                | BH21/0.1-0.3 | SE202202.021  | %     | 60 - 130% | 78         |
|                                | BH22/0.1-0.3 | SE202202.022  | %     | 60 - 130% | 86         |

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## Volatile Petroleum Hydrocarbons In Soil (continued)

Method: ME-(AU)-[ENV]AN433

| Parameter                         | Sample Name  | Sample Number | Units | Criteria  | Recovery % |
|-----------------------------------|--------------|---------------|-------|-----------|------------|
| Bromofluorobenzene (Surrogate)    | BH23/0.1-0.3 | SE202202.023  | %     | 60 - 130% | 62         |
|                                   | BH24/0.1-0.3 | SE202202.024  | %     | 60 - 130% | 81         |
|                                   | BH25/0.1-0.3 | SE202202.025  | %     | 60 - 130% | 76         |
|                                   | BH26/0.1-0.3 | SE202202.026  | %     | 60 - 130% | 93         |
|                                   | BH27/0.1-0.3 | SE202202.027  | %     | 60 - 130% | 87         |
|                                   | SP1/0.1-0.3  | SE202202.028  | %     | 60 - 130% | 84         |
|                                   | QC1          | SE202202.029  | %     | 60 - 130% | 88         |
|                                   | QC2          | SE202202.030  | %     | 60 - 130% | 83         |
| d4-1,2-dichloroethane (Surrogate) | BH1/0.1-0.3  | SE202202.001  | %     | 60 - 130% | 107        |
|                                   | BH2/0.1-0.3  | SE202202.002  | %     | 60 - 130% | 109        |
|                                   | BH3/0.1-0.3  | SE202202.003  | %     | 60 - 130% | 108        |
|                                   | BH4/0.1-0.3  | SE202202.004  | %     | 60 - 130% | 113        |
|                                   | BH5/0.1-0.3  | SE202202.005  | %     | 60 - 130% | 115        |
|                                   | BH6/0.1-0.3  | SE202202.006  | %     | 60 - 130% | 110        |
|                                   | BH7/0.1-0.3  | SE202202.007  | %     | 60 - 130% | 110        |
|                                   | BH8/0.1-0.3  | SE202202.008  | %     | 60 - 130% | 107        |
|                                   | BH9/0.1-0.3  | SE202202.009  | %     | 60 - 130% | 112        |
|                                   | BH10/0.1-0.3 | SE202202.010  | %     | 60 - 130% | 115        |
|                                   | BH11/0.1-0.3 | SE202202.011  | %     | 60 - 130% | 112        |
|                                   | BH12/0.1-0.3 | SE202202.012  | %     | 60 - 130% | 109        |
|                                   | BH13/0.1-0.3 | SE202202.013  | %     | 60 - 130% | 113        |
|                                   | BH14/0.1-0.3 | SE202202.014  | %     | 60 - 130% | 112        |
|                                   | BH15/0.1-0.3 | SE202202.015  | %     | 60 - 130% | 109        |
|                                   | BH16/0.1-0.3 | SE202202.016  | %     | 60 - 130% | 80         |
|                                   | BH17/0.1-0.3 | SE202202.017  | %     | 60 - 130% | 81         |
|                                   | BH18/0.1-0.3 | SE202202.018  | %     | 60 - 130% | 73         |
|                                   | BH19/0.1-0.3 | SE202202.019  | %     | 60 - 130% | 73         |
|                                   | BH20/0.1-0.3 | SE202202.020  | %     | 60 - 130% | 81         |
|                                   | BH21/0.1-0.3 | SE202202.021  | %     | 60 - 130% | 76         |
|                                   | BH22/0.1-0.3 | SE202202.022  | %     | 60 - 130% | 83         |
|                                   | BH23/0.1-0.3 | SE202202.023  | %     | 60 - 130% | 72         |
|                                   | BH24/0.1-0.3 | SE202202.024  | %     | 60 - 130% | 80         |
|                                   | BH25/0.1-0.3 | SE202202.025  | %     | 60 - 130% | 76         |
|                                   | BH26/0.1-0.3 | SE202202.026  | %     | 60 - 130% | 87         |
|                                   | BH27/0.1-0.3 | SE202202.027  | %     | 60 - 130% | 83         |
|                                   | SP1/0.1-0.3  | SE202202.028  | %     | 60 - 130% | 84         |
|                                   | QC1          | SE202202.029  | %     | 60 - 130% | 86         |
|                                   | QC2          | SE202202.030  | %     | 60 - 130% | 81         |
| d8-toluene (Surrogate)            | BH1/0.1-0.3  | SE202202.001  | %     | 60 - 130% | 105        |
|                                   | BH2/0.1-0.3  | SE202202.002  | %     | 60 - 130% | 106        |
|                                   | BH3/0.1-0.3  | SE202202.003  | %     | 60 - 130% | 105        |
|                                   | BH4/0.1-0.3  | SE202202.004  | %     | 60 - 130% | 110        |
|                                   | BH5/0.1-0.3  | SE202202.005  | %     | 60 - 130% | 112        |
|                                   | BH6/0.1-0.3  | SE202202.006  | %     | 60 - 130% | 108        |
|                                   | BH7/0.1-0.3  | SE202202.007  | %     | 60 - 130% | 107        |
|                                   | BH8/0.1-0.3  | SE202202.008  | %     | 60 - 130% | 104        |
|                                   | BH9/0.1-0.3  | SE202202.009  | %     | 60 - 130% | 110        |
|                                   | BH10/0.1-0.3 | SE202202.010  | %     | 60 - 130% | 113        |
|                                   | BH11/0.1-0.3 | SE202202.011  | %     | 60 - 130% | 110        |
|                                   | BH12/0.1-0.3 | SE202202.012  | %     | 60 - 130% | 106        |
|                                   | BH13/0.1-0.3 | SE202202.013  | %     | 60 - 130% | 110        |
|                                   | BH14/0.1-0.3 | SE202202.014  | %     | 60 - 130% | 108        |
|                                   | BH15/0.1-0.3 | SE202202.015  | %     | 60 - 130% | 105        |
|                                   | BH16/0.1-0.3 | SE202202.016  | %     | 60 - 130% | 83         |
|                                   | BH17/0.1-0.3 | SE202202.017  | %     | 60 - 130% | 83         |
|                                   | BH18/0.1-0.3 | SE202202.018  | %     | 60 - 130% | 73         |
|                                   | BH19/0.1-0.3 | SE202202.019  | %     | 60 - 130% | 71         |
|                                   | BH20/0.1-0.3 | SE202202.020  | %     | 60 - 130% | 85         |
|                                   | BH21/0.1-0.3 | SE202202.021  | %     | 60 - 130% | 79         |
|                                   | BH22/0.1-0.3 | SE202202.022  | %     | 60 - 130% | 86         |
|                                   | BH23/0.1-0.3 | SE202202.023  | %     | 60 - 130% | 72         |

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

**Volatile Petroleum Hydrocarbons in Soil (continued)****Method: ME-(AU)-[ENV]AN433**

| Parameter              | Sample Name  | Sample Number | Units | Criteria  | Recovery % |
|------------------------|--------------|---------------|-------|-----------|------------|
| d8-toluene (Surrogate) | BH24/0.1-0.3 | SE202202.024  | %     | 60 - 130% | 82         |
|                        | BH25/0.1-0.3 | SE202202.025  | %     | 60 - 130% | 79         |
|                        | BH26/0.1-0.3 | SE202202.026  | %     | 60 - 130% | 88         |
|                        | BH27/0.1-0.3 | SE202202.027  | %     | 60 - 130% | 88         |
|                        | SP1/0.1-0.3  | SE202202.028  | %     | 60 - 130% | 88         |
|                        | QC1          | SE202202.029  | %     | 60 - 130% | 91         |
|                        | QC2          | SE202202.030  | %     | 60 - 130% | 86         |

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

## Mercury in Soil

Method: ME-(AU)-[ENV]AN312

| Sample Number | Parameter | Units | LOR  | Result |
|---------------|-----------|-------|------|--------|
| LB192094.001  | Mercury   | mg/kg | 0.05 | <0.05  |
| LB192095.001  | Mercury   | mg/kg | 0.05 | <0.05  |

## OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

| Sample Number | Parameter                               | Units | LOR | Result |
|---------------|-----------------------------------------|-------|-----|--------|
| LB192011.001  | Hexachlorobenzene (HCB)                 | mg/kg | 0.1 | <0.1   |
|               | Alpha BHC                               | mg/kg | 0.1 | <0.1   |
|               | Lindane                                 | mg/kg | 0.1 | <0.1   |
|               | Heptachlor                              | mg/kg | 0.1 | <0.1   |
|               | Aldrin                                  | mg/kg | 0.1 | <0.1   |
|               | Beta BHC                                | mg/kg | 0.1 | <0.1   |
|               | Delta BHC                               | mg/kg | 0.1 | <0.1   |
|               | Heptachlor epoxide                      | mg/kg | 0.1 | <0.1   |
|               | Alpha Endosulfan                        | mg/kg | 0.2 | <0.2   |
|               | Gamma Chlordane                         | mg/kg | 0.1 | <0.1   |
|               | Alpha Chlordane                         | mg/kg | 0.1 | <0.1   |
|               | p,p'-DDE                                | mg/kg | 0.1 | <0.1   |
|               | Dieldrin                                | mg/kg | 0.2 | <0.2   |
|               | Endrin                                  | mg/kg | 0.2 | <0.2   |
|               | Beta Endosulfan                         | mg/kg | 0.2 | <0.2   |
|               | p,p'-DDD                                | mg/kg | 0.1 | <0.1   |
|               | p,p'-DDT                                | mg/kg | 0.1 | <0.1   |
|               | Endosulfan sulphate                     | mg/kg | 0.1 | <0.1   |
|               | Endrin Aldehyde                         | mg/kg | 0.1 | <0.1   |
|               | Methoxychlor                            | mg/kg | 0.1 | <0.1   |
|               | Endrin Ketone                           | mg/kg | 0.1 | <0.1   |
| Surrogates    | Isodrin                                 | mg/kg | 0.1 | <0.1   |
|               | Mirex                                   | mg/kg | 0.1 | <0.1   |
| LB192012.001  | Tetrachloro-m-xylene (TCMX) (Surrogate) | %     | -   | 84     |
|               | Hexachlorobenzene (HCB)                 | mg/kg | 0.1 | <0.1   |
|               | Alpha BHC                               | mg/kg | 0.1 | <0.1   |
|               | Lindane                                 | mg/kg | 0.1 | <0.1   |
|               | Heptachlor                              | mg/kg | 0.1 | <0.1   |
|               | Aldrin                                  | mg/kg | 0.1 | <0.1   |
|               | Beta BHC                                | mg/kg | 0.1 | <0.1   |
|               | Delta BHC                               | mg/kg | 0.1 | <0.1   |
|               | Heptachlor epoxide                      | mg/kg | 0.1 | <0.1   |
|               | Alpha Endosulfan                        | mg/kg | 0.2 | <0.2   |
|               | Gamma Chlordane                         | mg/kg | 0.1 | <0.1   |
|               | Alpha Chlordane                         | mg/kg | 0.1 | <0.1   |
|               | p,p'-DDE                                | mg/kg | 0.1 | <0.1   |
|               | Dieldrin                                | mg/kg | 0.2 | <0.2   |
|               | Endrin                                  | mg/kg | 0.2 | <0.2   |
|               | Beta Endosulfan                         | mg/kg | 0.2 | <0.2   |
|               | p,p'-DDD                                | mg/kg | 0.1 | <0.1   |
|               | p,p'-DDT                                | mg/kg | 0.1 | <0.1   |
|               | Endosulfan sulphate                     | mg/kg | 0.1 | <0.1   |
|               | Endrin Aldehyde                         | mg/kg | 0.1 | <0.1   |
| Surrogates    | Methoxychlor                            | mg/kg | 0.1 | <0.1   |
|               | Endrin Ketone                           | mg/kg | 0.1 | <0.1   |
| Surrogates    | Isodrin                                 | mg/kg | 0.1 | <0.1   |
|               | Mirex                                   | mg/kg | 0.1 | <0.1   |
| Surrogates    | Tetrachloro-m-xylene (TCMX) (Surrogate) | %     | -   | 83     |

## OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

| Sample Number | Parameter            | Units | LOR | Result |
|---------------|----------------------|-------|-----|--------|
| LB192011.001  | Dichlorvos           | mg/kg | 0.5 | <0.5   |
|               | Dimethoate           | mg/kg | 0.5 | <0.5   |
|               | Diazinon (Dimpylate) | mg/kg | 0.5 | <0.5   |
|               | Fenitrothion         | mg/kg | 0.2 | <0.2   |
|               | Malathion            | mg/kg | 0.2 | <0.2   |

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

#### OP Pesticides in Soil (continued)

Method: ME-(AU)-ENVJAN420

| Sample Number | Parameter                         | Units | LOR | Result |
|---------------|-----------------------------------|-------|-----|--------|
| LB192011.001  | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | <0.2   |
|               | Parathion-ethyl (Parathion)       | mg/kg | 0.2 | <0.2   |
|               | Bromophos Ethyl                   | mg/kg | 0.2 | <0.2   |
|               | Methidathion                      | mg/kg | 0.5 | <0.5   |
|               | Ethion                            | mg/kg | 0.2 | <0.2   |
|               | Azinphos-methyl (Guthion)         | mg/kg | 0.2 | <0.2   |
|               | 2-fluorobiphenyl (Surrogate)      | %     | -   | 84     |
|               | d14-p-terphenyl (Surrogate)       | %     | -   | 78     |
| LB192012.001  | Dichlorvos                        | mg/kg | 0.5 | <0.5   |
|               | Dimethoate                        | mg/kg | 0.5 | <0.5   |
|               | Diazinon (Dimpylate)              | mg/kg | 0.5 | <0.5   |
|               | Fenitrothion                      | mg/kg | 0.2 | <0.2   |
|               | Malathion                         | mg/kg | 0.2 | <0.2   |
|               | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | <0.2   |
|               | Parathion-ethyl (Parathion)       | mg/kg | 0.2 | <0.2   |
|               | Bromophos Ethyl                   | mg/kg | 0.2 | <0.2   |
|               | Methidathion                      | mg/kg | 0.5 | <0.5   |
|               | Ethion                            | mg/kg | 0.2 | <0.2   |
|               | Azinphos-methyl (Guthion)         | mg/kg | 0.2 | <0.2   |
|               | 2-fluorobiphenyl (Surrogate)      | %     | -   | 88     |
|               | d14-p-terphenyl (Surrogate)       | %     | -   | 89     |

#### PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-ENVJAN420

| Sample Number | Parameter                    | Units | LOR | Result |
|---------------|------------------------------|-------|-----|--------|
| LB192011.001  | Naphthalene                  | mg/kg | 0.1 | <0.1   |
|               | 2-methylnaphthalene          | mg/kg | 0.1 | <0.1   |
|               | 1-methylnaphthalene          | mg/kg | 0.1 | <0.1   |
|               | Acenaphthylene               | mg/kg | 0.1 | <0.1   |
|               | Acenaphthene                 | mg/kg | 0.1 | <0.1   |
|               | Fluorene                     | mg/kg | 0.1 | <0.1   |
|               | Phenanthrene                 | mg/kg | 0.1 | <0.1   |
|               | Anthracene                   | mg/kg | 0.1 | <0.1   |
|               | Fluoranthene                 | mg/kg | 0.1 | <0.1   |
|               | Pyrene                       | mg/kg | 0.1 | <0.1   |
|               | Benzo(a)anthracene           | mg/kg | 0.1 | <0.1   |
|               | Chrysene                     | mg/kg | 0.1 | <0.1   |
|               | Benzo(a)pyrene               | mg/kg | 0.1 | <0.1   |
|               | Indeno(1,2,3-cd)pyrene       | mg/kg | 0.1 | <0.1   |
|               | Dibenzo(ah)anthracene        | mg/kg | 0.1 | <0.1   |
|               | Benzo(ghi)perylene           | mg/kg | 0.1 | <0.1   |
|               | Total PAH (18)               | mg/kg | 0.8 | <0.8   |
|               | d5-nitrobenzene (Surrogate)  | %     | -   | 80     |
| LB192012.001  | 2-fluorobiphenyl (Surrogate) | %     | -   | 84     |
|               | d14-p-terphenyl (Surrogate)  | %     | -   | 78     |
|               | Naphthalene                  | mg/kg | 0.1 | <0.1   |
| LB192012.001  | 2-methylnaphthalene          | mg/kg | 0.1 | <0.1   |
|               | 1-methylnaphthalene          | mg/kg | 0.1 | <0.1   |
|               | Acenaphthylene               | mg/kg | 0.1 | <0.1   |
|               | Acenaphthene                 | mg/kg | 0.1 | <0.1   |
|               | Fluorene                     | mg/kg | 0.1 | <0.1   |
|               | Phenanthrene                 | mg/kg | 0.1 | <0.1   |
|               | Anthracene                   | mg/kg | 0.1 | <0.1   |
|               | Fluoranthene                 | mg/kg | 0.1 | <0.1   |
|               | Pyrene                       | mg/kg | 0.1 | <0.1   |
|               | Benzo(a)anthracene           | mg/kg | 0.1 | <0.1   |
|               | Chrysene                     | mg/kg | 0.1 | <0.1   |
|               | Benzo(a)pyrene               | mg/kg | 0.1 | <0.1   |
|               | Indeno(1,2,3-cd)pyrene       | mg/kg | 0.1 | <0.1   |
|               | Dibenzo(ah)anthracene        | mg/kg | 0.1 | <0.1   |
|               | Benzo(ghi)perylene           | mg/kg | 0.1 | <0.1   |
|               | Total PAH (18)               | mg/kg | 0.8 | <0.8   |

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

| Sample Number | Parameter                    | Units | LOR | Result |
|---------------|------------------------------|-------|-----|--------|
| LB192012.001  | Surrogates                   |       |     |        |
|               | d5-nitrobenzene (Surrogate)  | %     | -   | 89     |
|               | 2-fluorobiphenyl (Surrogate) | %     | -   | 88     |
|               | d14-p-terphenyl (Surrogate)  | %     | -   | 89     |

## PCBs in Soil

Method: ME-(AU)-[ENV]AN420

| Sample Number | Parameter                               | Units | LOR | Result |
|---------------|-----------------------------------------|-------|-----|--------|
| LB192011.001  | Arochlor 1016                           | mg/kg | 0.2 | <0.2   |
|               | Arochlor 1221                           | mg/kg | 0.2 | <0.2   |
|               | Arochlor 1232                           | mg/kg | 0.2 | <0.2   |
|               | Arochlor 1242                           | mg/kg | 0.2 | <0.2   |
|               | Arochlor 1248                           | mg/kg | 0.2 | <0.2   |
|               | Arochlor 1254                           | mg/kg | 0.2 | <0.2   |
|               | Arochlor 1260                           | mg/kg | 0.2 | <0.2   |
|               | Arochlor 1262                           | mg/kg | 0.2 | <0.2   |
|               | Arochlor 1268                           | mg/kg | 0.2 | <0.2   |
|               | Total PCBs (Arochlors)                  | mg/kg | 1   | <1     |
| LB192012.001  | Surrogates                              |       |     |        |
|               | Tetrachloro-m-xylene (TCMX) (Surrogate) | %     | -   | 84     |
| LB192012.001  | Arochlor 1016                           | mg/kg | 0.2 | <0.2   |
|               | Arochlor 1221                           | mg/kg | 0.2 | <0.2   |
|               | Arochlor 1232                           | mg/kg | 0.2 | <0.2   |
|               | Arochlor 1242                           | mg/kg | 0.2 | <0.2   |
|               | Arochlor 1248                           | mg/kg | 0.2 | <0.2   |
|               | Arochlor 1254                           | mg/kg | 0.2 | <0.2   |
|               | Arochlor 1260                           | mg/kg | 0.2 | <0.2   |
|               | Arochlor 1262                           | mg/kg | 0.2 | <0.2   |
|               | Arochlor 1268                           | mg/kg | 0.2 | <0.2   |
|               | Total PCBs (Arochlors)                  | mg/kg | 1   | <1     |
|               | Surrogates                              |       |     |        |
|               | Tetrachloro-m-xylene (TCMX) (Surrogate) | %     | -   | 83     |

## Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

| Sample Number | Parameter    | Units | LOR | Result |
|---------------|--------------|-------|-----|--------|
| LB192092.001  | Arsenic, As  | mg/kg | 1   | <1     |
|               | Cadmium, Cd  | mg/kg | 0.3 | <0.3   |
|               | Chromium, Cr | mg/kg | 0.5 | <0.5   |
|               | Copper, Cu   | mg/kg | 0.5 | <0.5   |
|               | Nickel, Ni   | mg/kg | 0.5 | <0.5   |
|               | Lead, Pb     | mg/kg | 1   | <1     |
|               | Zinc, Zn     | mg/kg | 2   | <2.0   |
| LB192093.001  | Arsenic, As  | mg/kg | 1   | <1     |
|               | Cadmium, Cd  | mg/kg | 0.3 | <0.3   |
|               | Chromium, Cr | mg/kg | 0.5 | <0.5   |
|               | Copper, Cu   | mg/kg | 0.5 | <0.5   |
|               | Nickel, Ni   | mg/kg | 0.5 | <0.5   |
|               | Lead, Pb     | mg/kg | 1   | <1     |
|               | Zinc, Zn     | mg/kg | 2   | <2.0   |

## TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

| Sample Number | Parameter         | Units | LOR | Result |
|---------------|-------------------|-------|-----|--------|
| LB192011.001  | TRH C10-C14       | mg/kg | 20  | <20    |
|               | TRH C15-C28       | mg/kg | 45  | <45    |
|               | TRH C29-C36       | mg/kg | 45  | <45    |
|               | TRH C37-C40       | mg/kg | 100 | <100   |
|               | TRH C10-C36 Total | mg/kg | 110 | <110   |
| LB192012.001  | TRH C10-C14       | mg/kg | 20  | <20    |
|               | TRH C15-C28       | mg/kg | 45  | <45    |
|               | TRH C29-C36       | mg/kg | 45  | <45    |
|               | TRH C37-C40       | mg/kg | 100 | <100   |
|               | TRH C10-C36 Total | mg/kg | 110 | <110   |

## VOC's in Soil

Method: ME-(AU)-[ENV]AN433

| Sample Number | Parameter | Units | LOR |
|---------------|-----------|-------|-----|
|---------------|-----------|-------|-----|

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

## VOC's in Soil (continued)

Method: ME-(AU)-ENVJAN433

| Sample Number |                                  | Parameter                         | Units | LOR | Result |
|---------------|----------------------------------|-----------------------------------|-------|-----|--------|
| LB192008.001  | Monocyclic Aromatic Hydrocarbons | Benzene                           | mg/kg | 0.1 | <0.1   |
|               |                                  | Toluene                           | mg/kg | 0.1 | <0.1   |
|               |                                  | Ethylbenzene                      | mg/kg | 0.1 | <0.1   |
|               |                                  | m/p-xylene                        | mg/kg | 0.2 | <0.2   |
|               |                                  | o-xylene                          | mg/kg | 0.1 | <0.1   |
|               | Polycyclic VOCs                  | Naphthalene                       | mg/kg | 0.1 | <0.1   |
|               | Surrogates                       | d4-1,2-dichloroethane (Surrogate) | %     | -   | 105    |
|               |                                  | d8-toluene (Surrogate)            | %     | -   | 102    |
|               |                                  | Bromofluorobenzene (Surrogate)    | %     | -   | 94     |
|               | Totals                           | Total BTEX                        | mg/kg | 0.6 | <0.6   |
| LB192009.001  | Monocyclic Aromatic Hydrocarbons | Benzene                           | mg/kg | 0.1 | <0.1   |
|               |                                  | Toluene                           | mg/kg | 0.1 | <0.1   |
|               |                                  | Ethylbenzene                      | mg/kg | 0.1 | <0.1   |
|               |                                  | m/p-xylene                        | mg/kg | 0.2 | <0.2   |
|               |                                  | o-xylene                          | mg/kg | 0.1 | <0.1   |
|               | Polycyclic VOCs                  | Naphthalene                       | mg/kg | 0.1 | <0.1   |
|               | Surrogates                       | d4-1,2-dichloroethane (Surrogate) | %     | -   | 85     |
|               |                                  | d8-toluene (Surrogate)            | %     | -   | 89     |
|               |                                  | Bromofluorobenzene (Surrogate)    | %     | -   | 89     |
|               | Totals                           | Total BTEX                        | mg/kg | 0.6 | <0.6   |

## Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-ENVJAN433

| Sample Number |            | Parameter                         | Units | LOR | Result |
|---------------|------------|-----------------------------------|-------|-----|--------|
| LB192008.001  |            | TRH C6-C9                         | mg/kg | 20  | <20    |
|               | Surrogates | d4-1,2-dichloroethane (Surrogate) | %     | -   | 105    |
| LB192009.001  |            | TRH C6-C9                         | mg/kg | 20  | <20    |
|               | Surrogates | d4-1,2-dichloroethane (Surrogate) | %     | -   | 85     |

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula:  $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula:  $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## Mercury in Soil

Method: ME-(AU)-[ENV]JAN312

| Original     | Duplicate    | Parameter | Units | LOR  | Original | Duplicate | Criteria % | RPD % |
|--------------|--------------|-----------|-------|------|----------|-----------|------------|-------|
| SE202202.010 | LB192094.014 | Mercury   | mg/kg | 0.05 | <0.05    | <0.05     | 200        | 0     |
| SE202202.015 | LB192094.020 | Mercury   | mg/kg | 0.05 | <0.05    | <0.05     | 200        | 0     |
| SE202202.025 | LB192095.014 | Mercury   | mg/kg | 0.05 | <0.05    | <0.05     | 200        | 0     |
| SE202202.030 | LB192095.020 | Mercury   | mg/kg | 0.05 | <0.05    | <0.05     | 142        | 0     |

## Moisture Content

Method: ME-(AU)-[ENV]JAN002

| Original     | Duplicate    | Parameter  | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|--------------|--------------|------------|-------|-----|----------|-----------|------------|-------|
| SE202202.010 | LB192015.011 | % Moisture | %w/w  | 1   | 13.7     | 13.6      | 37         | 1     |
| SE202202.015 | LB192015.017 | % Moisture | %w/w  | 1   | 14.1     | 13.7      | 37         | 3     |
| SE202202.025 | LB192016.011 | % Moisture | %w/w  | 1   | 15.3     | 13.9      | 37         | 10    |
| SE202202.030 | LB192016.017 | % Moisture | %w/w  | 1   | 3.1      | 3.3       | 61         | 4     |

## OC Pesticides in Soil

Method: ME-(AU)-[ENV]JAN420

| Original     | Duplicate               | Parameter                               | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|--------------|-------------------------|-----------------------------------------|-------|-----|----------|-----------|------------|-------|
| SE202202.014 | LB192011.021            | Hexachlorobenzene (HCB)                 | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | Alpha BHC                               | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | Lindane                                 | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | Heptachlor                              | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | Aldrin                                  | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | Beta BHC                                | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | Delta BHC                               | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | Heptachlor epoxide                      | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | o,p'-DDE                                | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | Alpha Endosulfan                        | mg/kg | 0.2 | <0.2     | 0         | 200        | 0     |
|              |                         | Gamma Chlordane                         | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | Alpha Chlordane                         | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | trans-Nonachlor                         | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | p,p'-DDE                                | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | Dieldrin                                | mg/kg | 0.2 | <0.2     | 0         | 200        | 0     |
|              |                         | Endrin                                  | mg/kg | 0.2 | <0.2     | 0         | 200        | 0     |
|              |                         | o,p'-DDD                                | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | o,p'-DDT                                | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | Beta Endosulfan                         | mg/kg | 0.2 | <0.2     | 0         | 200        | 0     |
|              |                         | p,p'-DDD                                | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | p,p'-DDT                                | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | Endosulfan sulphate                     | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | Endrin Aldehyde                         | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | Methoxychlor                            | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | Endrin Ketone                           | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | Isodrin                                 | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | Mirex                                   | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              | Total CLP OC Pesticides | mg/kg                                   | 1     | <1  | 0        | 200       | 0          |       |
|              | Surrogates              | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | -   | 0.14     | 0.133     | 30         | 3     |
| SE202202.029 | LB192012.021            | Hexachlorobenzene (HCB)                 | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | Alpha BHC                               | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | Lindane                                 | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | Heptachlor                              | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | Aldrin                                  | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | Beta BHC                                | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | Delta BHC                               | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | Heptachlor epoxide                      | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | o,p'-DDE                                | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | Alpha Endosulfan                        | mg/kg | 0.2 | <0.2     | 0         | 200        | 0     |
|              |                         | Gamma Chlordane                         | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | Alpha Chlordane                         | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | trans-Nonachlor                         | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | p,p'-DDE                                | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | Dieldrin                                | mg/kg | 0.2 | <0.2     | 0         | 200        | 0     |
|              |                         | Endrin                                  | mg/kg | 0.2 | <0.2     | 0         | 200        | 0     |
|              |                         | o,p'-DDD                                | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | o,p'-DDT                                | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |                         | Beta Endosulfan                         | mg/kg | 0.2 | <0.2     | 0         | 200        | 0     |

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula:  $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula:  $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## OC Pesticides in Soil (continued)

Method: ME-(AU)-ENVJAN420

| Original     | Duplicate    | Parameter                               | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|--------------|--------------|-----------------------------------------|-------|-----|----------|-----------|------------|-------|
| SE202202.029 | LB192012.021 | p,p'-DDD                                | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |              | p,p'-DDT                                | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |              | Endosulfan sulphate                     | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |              | Endrin Aldehyde                         | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |              | Methoxychlor                            | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |              | Endrin Ketone                           | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |              | Isodrin                                 | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |              | Mirex                                   | mg/kg | 0.1 | <0.1     | 0         | 200        | 0     |
|              |              | Total CLP OC Pesticides                 | mg/kg | 1   | <1       | 0         | 200        | 0     |
|              | Surrogates   | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | -   | 0.14     | 0.133     | 30         | 2     |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-ENVJAN420

| Original     | Duplicate    | Parameter                             | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|--------------|--------------|---------------------------------------|-------|-----|----------|-----------|------------|-------|
| SE202202.015 | LB192011.020 | Naphthalene                           | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | 2-methylnaphthalene                   | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | 1-methylnaphthalene                   | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Acenaphthylene                        | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Acenaphthene                          | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Fluorene                              | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Phenanthrene                          | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Anthracene                            | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Fluoranthene                          | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Pyrene                                | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Benzo(a)anthracene                    | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Chrysene                              | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Benzo(b&j)fluoranthene                | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Benzo(k)fluoranthene                  | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Benzo(a)pyrene                        | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Indeno(1,2,3-cd)pyrene                | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Dibenzo(ah)anthracene                 | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Benzo(ghi)perylene                    | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Carcinogenic PAHs, BaP TEQ <LOR=0     | mg/kg | 0.2 | <0.2     | <0.2      | 200        | 0     |
|              |              | Carcinogenic PAHs, BaP TEQ <LOR=LOR   | mg/kg | 0.3 | <0.3     | <0.3      | 134        | 0     |
|              |              | Carcinogenic PAHs, BaP TEQ <LOR=LOR/2 | mg/kg | 0.2 | <0.2     | <0.2      | 175        | 0     |
|              |              | Total PAH (18)                        | mg/kg | 0.8 | <0.8     | <0.8      | 200        | 0     |
|              | Surrogates   | d5-nitrobenzene (Surrogate)           | mg/kg | -   | 0.4      | 0.4       | 30         | 3     |
|              |              | 2-fluorobiphenyl (Surrogate)          | mg/kg | -   | 0.4      | 0.4       | 30         | 3     |
|              |              | d14-p-terphenyl (Surrogate)           | mg/kg | -   | 0.4      | 0.4       | 30         | 2     |
| SE202202.025 | LB192012.014 | Naphthalene                           | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | 2-methylnaphthalene                   | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | 1-methylnaphthalene                   | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Acenaphthylene                        | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Acenaphthene                          | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Fluorene                              | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Phenanthrene                          | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Anthracene                            | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Fluoranthene                          | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Pyrene                                | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Benzo(a)anthracene                    | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Chrysene                              | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Benzo(b&j)fluoranthene                | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Benzo(k)fluoranthene                  | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Benzo(a)pyrene                        | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Indeno(1,2,3-cd)pyrene                | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Dibenzo(ah)anthracene                 | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Benzo(ghi)perylene                    | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              | Carcinogenic PAHs, BaP TEQ <LOR=0     | mg/kg | 0.2 | <0.2     | <0.2      | 200        | 0     |
|              |              | Carcinogenic PAHs, BaP TEQ <LOR=LOR   | mg/kg | 0.3 | <0.3     | <0.3      | 134        | 0     |
|              |              | Carcinogenic PAHs, BaP TEQ <LOR=LOR/2 | mg/kg | 0.2 | <0.2     | <0.2      | 175        | 0     |
|              |              | Total PAH (18)                        | mg/kg | 0.8 | <0.8     | <0.8      | 200        | 0     |
|              | Surrogates   | d5-nitrobenzene (Surrogate)           | mg/kg | -   | 0.4      | 0.4       | 30         | 2     |

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula:  $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula:  $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

#### PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]JAN420

| Original     | Duplicate    |            | Parameter                             | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|--------------|--------------|------------|---------------------------------------|-------|-----|----------|-----------|------------|-------|
| SE202202.025 | LB192012.014 | Surrogates | 2-fluorobiphenyl (Surrogate)          | mg/kg | -   | 0.4      | 0.4       | 30         | 13    |
|              |              |            | d14-p-terphenyl (Surrogate)           | mg/kg | -   | 0.4      | 0.4       | 30         | 2     |
| SE202202.030 | LB192012.020 |            | Naphthalene                           | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              |            | 2-methylnaphthalene                   | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              |            | 1-methylnaphthalene                   | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              |            | Acenaphthylene                        | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              |            | Acenaphthene                          | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              |            | Fluorene                              | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              |            | Phenanthrene                          | mg/kg | 0.1 | <0.1     | <0.1      | 169        | 0     |
|              |              |            | Anthracene                            | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              |            | Fluoranthene                          | mg/kg | 0.1 | <0.1     | <0.1      | 153        | 0     |
|              |              |            | Pyrene                                | mg/kg | 0.1 | <0.1     | <0.1      | 154        | 0     |
|              |              |            | Benzo(a)anthracene                    | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              |            | Chrysene                              | mg/kg | 0.1 | <0.1     | <0.1      | 170        | 0     |
|              |              |            | Benzo(b&j)fluoranthene                | mg/kg | 0.1 | <0.1     | <0.1      | 169        | 0     |
|              |              |            | Benzo(k)fluoranthene                  | mg/kg | 0.1 | <0.1     | <0.1      | 180        | 0     |
|              |              |            | Benzo(a)pyrene                        | mg/kg | 0.1 | <0.1     | <0.1      | 148        | 0     |
|              |              |            | Indeno(1,2,3-cd)pyrene                | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              |            | Dibenzo(ah)anthracene                 | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              |            | Benzo(ghi)perylene                    | mg/kg | 0.1 | <0.1     | <0.1      | 200        | 0     |
|              |              |            | Carcinogenic PAHs, BaP TEQ <LOR=0     | mg/kg | 0.2 | <0.2     | <0.2      | 200        | 0     |
|              |              |            | Carcinogenic PAHs, BaP TEQ <LOR=LOR   | mg/kg | 0.3 | <0.3     | <0.3      | 134        | 0     |
|              |              |            | Carcinogenic PAHs, BaP TEQ <LOR=LOR/2 | mg/kg | 0.2 | <0.2     | <0.2      | 175        | 0     |
|              |              |            | Total PAH (18)                        | mg/kg | 0.8 | <0.8     | <0.8      | 200        | 0     |
|              |              | Surrogates | d5-nitrobenzene (Surrogate)           | mg/kg | -   | 0.4      | 0.5       | 30         | 14    |
|              |              |            | 2-fluorobiphenyl (Surrogate)          | mg/kg | -   | 0.4      | 0.5       | 30         | 8     |
|              |              |            | d14-p-terphenyl (Surrogate)           | mg/kg | -   | 0.4      | 0.5       | 30         | 17    |

#### PCBs in Soil

Method: ME-(AU)-[ENV]JAN420

| Original     | Duplicate    | Parameter                               | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|--------------|--------------|-----------------------------------------|-------|-----|----------|-----------|------------|-------|
| SE202202.014 | LB192011.021 | Arochlor 1016                           | mg/kg | 0.2 | <0.2     | 0         | 200        | 0     |
|              |              | Arochlor 1221                           | mg/kg | 0.2 | <0.2     | 0         | 200        | 0     |
|              |              | Arochlor 1232                           | mg/kg | 0.2 | <0.2     | 0         | 200        | 0     |
|              |              | Arochlor 1242                           | mg/kg | 0.2 | <0.2     | 0         | 200        | 0     |
|              |              | Arochlor 1248                           | mg/kg | 0.2 | <0.2     | 0         | 200        | 0     |
|              |              | Arochlor 1254                           | mg/kg | 0.2 | <0.2     | 0         | 200        | 0     |
|              |              | Arochlor 1260                           | mg/kg | 0.2 | <0.2     | 0         | 200        | 0     |
|              |              | Arochlor 1262                           | mg/kg | 0.2 | <0.2     | 0         | 200        | 0     |
|              |              | Arochlor 1268                           | mg/kg | 0.2 | <0.2     | 0         | 200        | 0     |
|              |              | Total PCBs (Arochlors)                  | mg/kg | 1   | <1       | 0         | 200        | 0     |
|              | Surrogates   | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | -   | 0        | 0.133     | 30         | 3     |
| SE202202.029 | LB192012.021 | Arochlor 1016                           | mg/kg | 0.2 | <0.2     | 0         | 200        | 0     |
|              |              | Arochlor 1221                           | mg/kg | 0.2 | <0.2     | 0         | 200        | 0     |
|              |              | Arochlor 1232                           | mg/kg | 0.2 | <0.2     | 0         | 200        | 0     |
|              |              | Arochlor 1242                           | mg/kg | 0.2 | <0.2     | 0         | 200        | 0     |
|              |              | Arochlor 1248                           | mg/kg | 0.2 | <0.2     | 0         | 200        | 0     |
|              |              | Arochlor 1254                           | mg/kg | 0.2 | <0.2     | 0         | 200        | 0     |
|              |              | Arochlor 1260                           | mg/kg | 0.2 | <0.2     | 0         | 200        | 0     |
|              |              | Arochlor 1262                           | mg/kg | 0.2 | <0.2     | 0         | 200        | 0     |
|              |              | Arochlor 1268                           | mg/kg | 0.2 | <0.2     | 0         | 200        | 0     |
|              |              | Total PCBs (Arochlors)                  | mg/kg | 1   | <1       | 0         | 200        | 0     |
|              | Surrogates   | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | -   | 0        | 0.133     | 30         | 2     |

#### Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]JAN040/AN320

| Original     | Duplicate    | Parameter    | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|--------------|--------------|--------------|-------|-----|----------|-----------|------------|-------|
| SE202202.010 | LB192092.014 | Arsenic, As  | mg/kg | 1   | 8        | 8         | 43         | 1     |
|              |              | Cadmium, Cd  | mg/kg | 0.3 | <0.3     | <0.3      | 200        | 0     |
|              |              | Chromium, Cr | mg/kg | 0.5 | 12       | 13        | 34         | 3     |
|              |              | Copper, Cu   | mg/kg | 0.5 | 23       | 25        | 32         | 7     |
|              |              | Nickel, Ni   | mg/kg | 0.5 | 7.2      | 7.5       | 37         | 4     |
|              |              | Lead, Pb     | mg/kg | 1   | 13       | 13        | 38         | 4     |
|              |              | Zinc, Zn     | mg/kg | 2   | 44       | 45        | 35         | 3     |

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula:  $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula:  $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued)

Method: ME-(AU)-[ENV]AN040/AN320

| Original     | Duplicate    | Parameter    | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|--------------|--------------|--------------|-------|-----|----------|-----------|------------|-------|
| SE202202.015 | LB192092.020 | Arsenic, As  | mg/kg | 1   | 5        | 5         | 50         | 8     |
|              |              | Cadmium, Cd  | mg/kg | 0.3 | <0.3     | <0.3      | 200        | 0     |
|              |              | Chromium, Cr | mg/kg | 0.5 | 9.1      | 9.5       | 35         | 4     |
|              |              | Copper, Cu   | mg/kg | 0.5 | 16       | 16        | 33         | 2     |
|              |              | Nickel, Ni   | mg/kg | 0.5 | 2.2      | 2.3       | 52         | 5     |
|              |              | Lead, Pb     | mg/kg | 1   | 15       | 16        | 37         | 8     |
|              |              | Zinc, Zn     | mg/kg | 2   | 16       | 18        | 42         | 7     |
| SE202202.025 | LB192093.014 | Arsenic, As  | mg/kg | 1   | 2        | 2         | 79         | 9     |
|              |              | Cadmium, Cd  | mg/kg | 0.3 | <0.3     | <0.3      | 200        | 0     |
|              |              | Chromium, Cr | mg/kg | 0.5 | 7.0      | 6.8       | 37         | 3     |
|              |              | Copper, Cu   | mg/kg | 0.5 | 17       | 18        | 33         | 3     |
|              |              | Nickel, Ni   | mg/kg | 0.5 | 2.1      | 1.9       | 55         | 12    |
|              |              | Lead, Pb     | mg/kg | 1   | 13       | 13        | 38         | 1     |
|              |              | Zinc, Zn     | mg/kg | 2   | 15       | 14        | 44         | 1     |
| SE202202.030 | LB192093.020 | Arsenic, As  | mg/kg | 1   | 7        | 6         | 44         | 16    |
|              |              | Cadmium, Cd  | mg/kg | 0.3 | <0.3     | <0.3      | 164        | 0     |
|              |              | Chromium, Cr | mg/kg | 0.5 | 10       | 19        | 33         | 63 @  |
|              |              | Copper, Cu   | mg/kg | 0.5 | 32       | 32        | 32         | 1     |
|              |              | Nickel, Ni   | mg/kg | 0.5 | 8.2      | 7.7       | 36         | 7     |
|              |              | Lead, Pb     | mg/kg | 1   | 34       | 37        | 33         | 6     |
|              |              | Zinc, Zn     | mg/kg | 2   | 110      | 120       | 32         | 5     |

## TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

| Original     | Duplicate         | Parameter                       | Units        | LOR   | Original | Duplicate | Criteria % | RPD % |   |
|--------------|-------------------|---------------------------------|--------------|-------|----------|-----------|------------|-------|---|
| SE202202.010 | LB192011.014      | TRH C10-C14                     | mg/kg        | 20    | <20      | <20       | 200        | 0     |   |
|              |                   | TRH C15-C28                     | mg/kg        | 45    | <45      | <45       | 200        | 0     |   |
|              |                   | TRH C29-C36                     | mg/kg        | 45    | <45      | <45       | 200        | 0     |   |
|              |                   | TRH C37-C40                     | mg/kg        | 100   | <100     | <100      | 200        | 0     |   |
|              |                   | TRH C10-C36 Total               | mg/kg        | 110   | <110     | <110      | 200        | 0     |   |
|              |                   | TRH >C10-C40 Total (F bands)    | mg/kg        | 210   | <210     | <210      | 200        | 0     |   |
|              |                   | TRH F Bands                     | TRH >C10-C16 | mg/kg | 25       | <25       | <25        | 200   | 0 |
|              |                   | TRH >C10-C16 - Naphthalene (F2) | mg/kg        | 25    | <25      | <25       | 200        | 0     |   |
|              |                   | TRH >C16-C34 (F3)               | mg/kg        | 90    | <90      | <90       | 200        | 0     |   |
|              | TRH >C34-C40 (F4) | mg/kg                           | 120          | <120  | <120     | 200       | 0          |       |   |
| SE202202.015 | LB192011.020      | TRH C10-C14                     | mg/kg        | 20    | <20      | <20       | 200        | 0     |   |
|              |                   | TRH C15-C28                     | mg/kg        | 45    | <45      | <45       | 200        | 0     |   |
|              |                   | TRH C29-C36                     | mg/kg        | 45    | <45      | <45       | 200        | 0     |   |
|              |                   | TRH C37-C40                     | mg/kg        | 100   | <100     | <100      | 200        | 0     |   |
|              |                   | TRH C10-C36 Total               | mg/kg        | 110   | <110     | <110      | 200        | 0     |   |
|              |                   | TRH >C10-C40 Total (F bands)    | mg/kg        | 210   | <210     | <210      | 200        | 0     |   |
|              |                   | TRH F Bands                     | TRH >C10-C16 | mg/kg | 25       | <25       | <25        | 200   | 0 |
|              |                   | TRH >C10-C16 - Naphthalene (F2) | mg/kg        | 25    | <25      | <25       | 200        | 0     |   |
|              |                   | TRH >C16-C34 (F3)               | mg/kg        | 90    | <90      | <90       | 200        | 0     |   |
|              | TRH >C34-C40 (F4) | mg/kg                           | 120          | <120  | <120     | 200       | 0          |       |   |
| SE202202.025 | LB192012.014      | TRH C10-C14                     | mg/kg        | 20    | <20      | <20       | 200        | 0     |   |
|              |                   | TRH C15-C28                     | mg/kg        | 45    | <45      | <45       | 200        | 0     |   |
|              |                   | TRH C29-C36                     | mg/kg        | 45    | <45      | <45       | 200        | 0     |   |
|              |                   | TRH C37-C40                     | mg/kg        | 100   | <100     | <100      | 200        | 0     |   |
|              |                   | TRH C10-C36 Total               | mg/kg        | 110   | <110     | <110      | 200        | 0     |   |
|              |                   | TRH >C10-C40 Total (F bands)    | mg/kg        | 210   | <210     | <210      | 200        | 0     |   |
|              |                   | TRH F Bands                     | TRH >C10-C16 | mg/kg | 25       | <25       | <25        | 200   | 0 |
|              |                   | TRH >C10-C16 - Naphthalene (F2) | mg/kg        | 25    | <25      | <25       | 200        | 0     |   |
|              |                   | TRH >C16-C34 (F3)               | mg/kg        | 90    | <90      | <90       | 200        | 0     |   |
|              | TRH >C34-C40 (F4) | mg/kg                           | 120          | <120  | <120     | 200       | 0          |       |   |
| SE202202.030 | LB192012.020      | TRH C10-C14                     | mg/kg        | 20    | <20      | <20       | 200        | 0     |   |
|              |                   | TRH C15-C28                     | mg/kg        | 45    | <45      | <45       | 200        | 0     |   |
|              |                   | TRH C29-C36                     | mg/kg        | 45    | <45      | <45       | 200        | 0     |   |
|              |                   | TRH C37-C40                     | mg/kg        | 100   | <100     | <100      | 200        | 0     |   |
|              |                   | TRH C10-C36 Total               | mg/kg        | 110   | <110     | <110      | 200        | 0     |   |
|              |                   | TRH >C10-C40 Total (F bands)    | mg/kg        | 210   | <210     | <210      | 200        | 0     |   |
|              |                   | TRH F Bands                     | TRH >C10-C16 | mg/kg | 25       | <25       | <25        | 200   | 0 |
|              |                   |                                 |              |       |          |           |            |       |   |
|              |                   |                                 |              |       |          |           |            |       |   |

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula:  $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula:  $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-ENVJAN403

| Original     | Duplicate    | Parameter                       | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|--------------|--------------|---------------------------------|-------|-----|----------|-----------|------------|-------|
| SE202202.030 | LB192012.020 | TRH F Bands                     |       |     |          |           |            |       |
|              |              | TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25  | <25      | <25       | 200        | 0     |
|              |              | TRH >C16-C34 (F3)               | mg/kg | 90  | <90      | <90       | 200        | 0     |
|              |              | TRH >C34-C40 (F4)               | mg/kg | 120 | <120     | <120      | 200        | 0     |

## VOC's in Soil

Method: ME-(AU)-ENVJAN433

| Original     | Duplicate    |            | Parameter                         | Units   | LOR   | Original | Duplicate | Criteria % | RPD % |
|--------------|--------------|------------|-----------------------------------|---------|-------|----------|-----------|------------|-------|
| SE202202.010 | LB192008.014 | Monocyclic | Benzene                           | mg/kg   | 0.1   | <0.1     | <0.1      | 200        | 0     |
|              |              |            | Aromatic                          | Toluene | mg/kg | 0.1      | <0.1      | <0.1       | 200   |
|              |              |            | Ethylbenzene                      | mg/kg   | 0.1   | <0.1     | <0.1      | 200        | 0     |
|              |              |            | m/p-xylene                        | mg/kg   | 0.2   | <0.2     | <0.2      | 200        | 0     |
|              |              |            | o-xylene                          | mg/kg   | 0.1   | <0.1     | <0.1      | 200        | 0     |
|              |              | Polycyclic | Naphthalene                       | mg/kg   | 0.1   | <0.1     | <0.1      | 200        | 0     |
|              |              | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg   | -     | 11.5     | 11.6      | 50         | 1     |
|              |              |            | d8-toluene (Surrogate)            | mg/kg   | -     | 11.3     | 11.3      | 50         | 1     |
|              |              |            | Bromofluorobenzene (Surrogate)    | mg/kg   | -     | 10.3     | 10.3      | 50         | 0     |
|              |              | Totals     | Total Xylenes                     | mg/kg   | 0.3   | <0.3     | <0.3      | 200        | 0     |
| Total BTEX   | mg/kg        |            | 0.6                               | <0.6    | <0.6  | 200      | 0         |            |       |
| SE202202.015 | LB192008.020 | Monocyclic | Benzene                           | mg/kg   | 0.1   | <0.1     | <0.1      | 200        | 0     |
|              |              |            | Aromatic                          | Toluene | mg/kg | 0.1      | <0.1      | <0.1       | 200   |
|              |              |            | Ethylbenzene                      | mg/kg   | 0.1   | <0.1     | <0.1      | 200        | 0     |
|              |              |            | m/p-xylene                        | mg/kg   | 0.2   | <0.2     | <0.2      | 200        | 0     |
|              |              |            | o-xylene                          | mg/kg   | 0.1   | <0.1     | <0.1      | 200        | 0     |
|              |              | Polycyclic | Naphthalene                       | mg/kg   | 0.1   | <0.1     | <0.1      | 200        | 0     |
|              |              | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg   | -     | 10.9     | 10.7      | 50         | 1     |
|              |              |            | d8-toluene (Surrogate)            | mg/kg   | -     | 10.5     | 10.4      | 50         | 1     |
|              |              |            | Bromofluorobenzene (Surrogate)    | mg/kg   | -     | 9.6      | 9.4       | 50         | 2     |
|              |              | Totals     | Total Xylenes                     | mg/kg   | 0.3   | <0.3     | <0.3      | 200        | 0     |
| Total BTEX   | mg/kg        |            | 0.6                               | <0.6    | <0.6  | 200      | 0         |            |       |
| SE202202.025 | LB192009.014 | Monocyclic | Benzene                           | mg/kg   | 0.1   | <0.1     | <0.1      | 200        | 0     |
|              |              |            | Aromatic                          | Toluene | mg/kg | 0.1      | <0.1      | <0.1       | 200   |
|              |              |            | Ethylbenzene                      | mg/kg   | 0.1   | <0.1     | <0.1      | 200        | 0     |
|              |              |            | m/p-xylene                        | mg/kg   | 0.2   | <0.2     | <0.2      | 200        | 0     |
|              |              |            | o-xylene                          | mg/kg   | 0.1   | <0.1     | <0.1      | 200        | 0     |
|              |              | Polycyclic | Naphthalene                       | mg/kg   | 0.1   | <0.1     | <0.1      | 200        | 0     |
|              |              | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg   | -     | 7.6      | 7.7       | 50         | 1     |
|              |              |            | d8-toluene (Surrogate)            | mg/kg   | -     | 7.9      | 8.0       | 50         | 0     |
|              |              |            | Bromofluorobenzene (Surrogate)    | mg/kg   | -     | 7.6      | 7.4       | 50         | 2     |
|              |              | Totals     | Total Xylenes                     | mg/kg   | 0.3   | <0.3     | <0.3      | 200        | 0     |
| Total BTEX   | mg/kg        |            | 0.6                               | <0.6    | <0.6  | 200      | 0         |            |       |
| SE202202.030 | LB192009.020 | Monocyclic | Benzene                           | mg/kg   | 0.1   | <0.1     | <0.1      | 200        | 0     |
|              |              |            | Aromatic                          | Toluene | mg/kg | 0.1      | <0.1      | <0.1       | 200   |
|              |              |            | Ethylbenzene                      | mg/kg   | 0.1   | <0.1     | <0.1      | 200        | 0     |
|              |              |            | m/p-xylene                        | mg/kg   | 0.2   | <0.2     | <0.2      | 200        | 0     |
|              |              |            | o-xylene                          | mg/kg   | 0.1   | <0.1     | <0.1      | 200        | 0     |
|              |              | Polycyclic | Naphthalene                       | mg/kg   | 0.1   | <0.1     | <0.1      | 200        | 0     |
|              |              | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg   | -     | 8.1      | 8.8       | 50         | 8     |
|              |              |            | d8-toluene (Surrogate)            | mg/kg   | -     | 8.6      | 9.3       | 50         | 8     |
|              |              |            | Bromofluorobenzene (Surrogate)    | mg/kg   | -     | 8.3      | 8.8       | 50         | 6     |
|              |              | Totals     | Total Xylenes                     | mg/kg   | 0.3   | <0.3     | <0.3      | 200        | 0     |
| Total BTEX   | mg/kg        |            | 0.6                               | <0.6    | <0.6  | 200      | 0         |            |       |

## Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-ENVJAN433

| Original     | Duplicate    | Parameter   | Units                             | LOR   | Original | Duplicate | Criteria % | RPD % |   |
|--------------|--------------|-------------|-----------------------------------|-------|----------|-----------|------------|-------|---|
| SE202202.010 | LB192008.014 | TRH C6-C10  | mg/kg                             | 25    | <25      | <25       | 200        | 0     |   |
|              |              | TRH C6-C9   | mg/kg                             | 20    | <20      | <20       | 200        | 0     |   |
|              |              | Surrogates  | d4-1,2-dichloroethane (Surrogate) | mg/kg | -        | 11.5      | 11.6       | 30    | 1 |
|              |              |             | d8-toluene (Surrogate)            | mg/kg | -        | 11.3      | 11.3       | 30    | 1 |
|              |              |             | Bromofluorobenzene (Surrogate)    | mg/kg | -        | 10.3      | 10.3       | 30    | 0 |
|              |              | VPH F Bands | Benzene (F0)                      | mg/kg | 0.1      | <0.1      | <0.1       | 200   | 0 |
|              |              |             | TRH C6-C10 minus BTEX (F1)        | mg/kg | 25       | <25       | <25        | 200   | 0 |
| SE202202.015 | LB192008.020 | TRH C6-C10  | mg/kg                             | 25    | <25      | <25       | 200        | 0     |   |
|              |              | TRH C6-C9   | mg/kg                             | 20    | <20      | <20       | 200        | 0     |   |
|              |              | TRH C6-C10  | mg/kg                             | 25    | <25      | <25       | 200        | 0     |   |

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula:  $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula:  $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## Volatile Petroleum Hydrocarbons in Soil (continued)

Method: ME-(AU)-ENVJAN433

| Original     | Duplicate    | Parameter   | Units                             | LOR   | Original | Duplicate | Criteria % | RPD % |
|--------------|--------------|-------------|-----------------------------------|-------|----------|-----------|------------|-------|
| SE202202.015 | LB192008.020 | Surrogates  | d4-1,2-dichloroethane (Surrogate) | mg/kg | -        | 10.9      | 10.7       | 30    |
|              |              |             | d8-toluene (Surrogate)            | mg/kg | -        | 10.5      | 10.4       | 30    |
|              |              |             | Bromofluorobenzene (Surrogate)    | mg/kg | -        | 9.6       | 9.4        | 30    |
|              |              | VPF F Bands | Benzene (F0)                      | mg/kg | 0.1      | <0.1      | <0.1       | 200   |
|              |              |             | TRH C6-C10 minus BTEX (F1)        | mg/kg | 25       | <25       | <25        | 200   |
|              |              |             | TRH C6-C10                        | mg/kg | 25       | <25       | <25        | 200   |
| SE202202.025 | LB192009.014 |             | TRH C6-C9                         | mg/kg | 20       | <20       | <20        | 200   |
|              |              | Surrogates  | d4-1,2-dichloroethane (Surrogate) | mg/kg | -        | 7.6       | 7.7        | 30    |
|              |              |             | d8-toluene (Surrogate)            | mg/kg | -        | 7.9       | 8.0        | 30    |
|              |              |             | Bromofluorobenzene (Surrogate)    | mg/kg | -        | 7.6       | 7.4        | 30    |
|              |              | VPF F Bands | Benzene (F0)                      | mg/kg | 0.1      | <0.1      | <0.1       | 200   |
|              |              |             | TRH C6-C10 minus BTEX (F1)        | mg/kg | 25       | <25       | <25        | 200   |
| SE202202.030 | LB192009.020 |             | TRH C6-C10                        | mg/kg | 25       | <25       | <25        | 200   |
|              |              |             | TRH C6-C9                         | mg/kg | 20       | <20       | <20        | 200   |
|              |              | Surrogates  | d4-1,2-dichloroethane (Surrogate) | mg/kg | -        | 8.1       | 8.8        | 30    |
|              |              |             | d8-toluene (Surrogate)            | mg/kg | -        | 8.6       | 9.3        | 30    |
|              |              |             | Bromofluorobenzene (Surrogate)    | mg/kg | -        | 8.3       | 8.8        | 30    |
|              |              | VPF F Bands | Benzene (F0)                      | mg/kg | 0.1      | <0.1      | <0.1       | 200   |
|              |              |             | TRH C6-C10 minus BTEX (F1)        | mg/kg | 25       | <25       | <25        | 200   |

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

## Mercury in Soil

Method: ME-(AU)-[ENV]JAN312

| Sample Number | Parameter | Units | LOR  | Result | Expected | Criteria % | Recovery % |
|---------------|-----------|-------|------|--------|----------|------------|------------|
| LB192094.002  | Mercury   | mg/kg | 0.05 | 0.23   | 0.2      | 70 - 130   | 113        |
| LB192095.002  | Mercury   | mg/kg | 0.05 | 0.22   | 0.2      | 70 - 130   | 109        |

## OC Pesticides in Soil

Method: ME-(AU)-[ENV]JAN420

| Sample Number | Parameter  | Units                                   | LOR | Result | Expected | Criteria % | Recovery % |
|---------------|------------|-----------------------------------------|-----|--------|----------|------------|------------|
| LB192011.002  | Heptachlor | mg/kg                                   | 0.1 | 0.3    | 0.2      | 60 - 140   | 126        |
|               | Aldrin     | mg/kg                                   | 0.1 | 0.3    | 0.2      | 60 - 140   | 125        |
|               | Delta BHC  | mg/kg                                   | 0.1 | 0.3    | 0.2      | 60 - 140   | 127        |
|               | Dieldrin   | mg/kg                                   | 0.2 | 0.3    | 0.2      | 60 - 140   | 128        |
|               | Endrin     | mg/kg                                   | 0.2 | 0.3    | 0.2      | 60 - 140   | 131        |
|               | p,p'-DDT   | mg/kg                                   | 0.1 | 0.2    | 0.2      | 60 - 140   | 91         |
| LB192012.002  | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | -   | 0.15   | 0.15     | 40 - 130   | 99         |
|               | Heptachlor | mg/kg                                   | 0.1 | 0.2    | 0.2      | 60 - 140   | 122        |
|               | Aldrin     | mg/kg                                   | 0.1 | 0.2    | 0.2      | 60 - 140   | 124        |
|               | Delta BHC  | mg/kg                                   | 0.1 | 0.2    | 0.2      | 60 - 140   | 119        |
|               | Dieldrin   | mg/kg                                   | 0.2 | 0.2    | 0.2      | 60 - 140   | 125        |
|               | Endrin     | mg/kg                                   | 0.2 | 0.2    | 0.2      | 60 - 140   | 121        |
| LB192012.002  | Surrogates | p,p'-DDT                                | 0.1 | 0.2    | 0.2      | 60 - 140   | 97         |
|               | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | -   | 0.14   | 0.15     | 40 - 130   | 93         |

## OP Pesticides in Soil

Method: ME-(AU)-[ENV]JAN420

| Sample Number | Parameter                         | Units                        | LOR | Result | Expected | Criteria % | Recovery % |
|---------------|-----------------------------------|------------------------------|-----|--------|----------|------------|------------|
| LB192011.002  | Dichlorvos                        | mg/kg                        | 0.5 | 1.7    | 2        | 60 - 140   | 85         |
|               | Diazinon (Dimpylate)              | mg/kg                        | 0.5 | 1.7    | 2        | 60 - 140   | 87         |
|               | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg                        | 0.2 | 1.7    | 2        | 60 - 140   | 86         |
|               | Ethion                            | mg/kg                        | 0.2 | 1.4    | 2        | 60 - 140   | 72         |
|               | Surrogates                        | 2-fluorobiphenyl (Surrogate) | -   | 0.4    | 0.5      | 40 - 130   | 82         |
|               | Surrogates                        | d14-p-terphenyl (Surrogate)  | -   | 0.4    | 0.5      | 40 - 130   | 75         |
| LB192012.002  | Dichlorvos                        | mg/kg                        | 0.5 | 1.8    | 2        | 60 - 140   | 91         |
|               | Diazinon (Dimpylate)              | mg/kg                        | 0.5 | 1.5    | 2        | 60 - 140   | 73         |
|               | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg                        | 0.2 | 1.6    | 2        | 60 - 140   | 79         |
|               | Ethion                            | mg/kg                        | 0.2 | 1.3    | 2        | 60 - 140   | 67         |
|               | Surrogates                        | 2-fluorobiphenyl (Surrogate) | -   | 0.4    | 0.5      | 40 - 130   | 88         |
|               | Surrogates                        | d14-p-terphenyl (Surrogate)  | -   | 0.4    | 0.5      | 40 - 130   | 80         |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]JAN420

| Sample Number | Parameter      | Units                        | LOR | Result | Expected | Criteria % | Recovery % |
|---------------|----------------|------------------------------|-----|--------|----------|------------|------------|
| LB192011.002  | Naphthalene    | mg/kg                        | 0.1 | 3.6    | 4        | 60 - 140   | 91         |
|               | Acenaphthylene | mg/kg                        | 0.1 | 3.7    | 4        | 60 - 140   | 92         |
|               | Acenaphthene   | mg/kg                        | 0.1 | 3.8    | 4        | 60 - 140   | 94         |
|               | Phenanthrene   | mg/kg                        | 0.1 | 3.7    | 4        | 60 - 140   | 94         |
|               | Anthracene     | mg/kg                        | 0.1 | 3.5    | 4        | 60 - 140   | 88         |
|               | Fluoranthene   | mg/kg                        | 0.1 | 3.4    | 4        | 60 - 140   | 86         |
|               | Pyrene         | mg/kg                        | 0.1 | 3.6    | 4        | 60 - 140   | 91         |
|               | Benzo(a)pyrene | mg/kg                        | 0.1 | 3.6    | 4        | 60 - 140   | 89         |
|               | Surrogates     | d5-nitrobenzene (Surrogate)  | -   | 0.4    | 0.5      | 40 - 130   | 77         |
|               | Surrogates     | 2-fluorobiphenyl (Surrogate) | -   | 0.4    | 0.5      | 40 - 130   | 82         |
|               | Surrogates     | d14-p-terphenyl (Surrogate)  | -   | 0.4    | 0.5      | 40 - 130   | 75         |
| LB192012.002  | Naphthalene    | mg/kg                        | 0.1 | 4.2    | 4        | 60 - 140   | 105        |
|               | Acenaphthylene | mg/kg                        | 0.1 | 4.1    | 4        | 60 - 140   | 103        |
|               | Acenaphthene   | mg/kg                        | 0.1 | 4.4    | 4        | 60 - 140   | 110        |
|               | Phenanthrene   | mg/kg                        | 0.1 | 4.4    | 4        | 60 - 140   | 110        |
|               | Anthracene     | mg/kg                        | 0.1 | 4.3    | 4        | 60 - 140   | 107        |
|               | Fluoranthene   | mg/kg                        | 0.1 | 4.0    | 4        | 60 - 140   | 100        |
|               | Pyrene         | mg/kg                        | 0.1 | 4.4    | 4        | 60 - 140   | 109        |
|               | Benzo(a)pyrene | mg/kg                        | 0.1 | 4.6    | 4        | 60 - 140   | 114        |
|               | Surrogates     | d5-nitrobenzene (Surrogate)  | -   | 0.4    | 0.5      | 40 - 130   | 79         |
|               | Surrogates     | 2-fluorobiphenyl (Surrogate) | -   | 0.4    | 0.5      | 40 - 130   | 88         |
|               | Surrogates     | d14-p-terphenyl (Surrogate)  | -   | 0.4    | 0.5      | 40 - 130   | 80         |

## PCBs in Soil

Method: ME-(AU)-[ENV]JAN420

| Sample Number | Parameter | Units | LOR |
|---------------|-----------|-------|-----|
|---------------|-----------|-------|-----|

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

#### PCBs in Soil (continued)

Method: ME-(AU)-[ENV]AN420

| Sample Number | Parameter     | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---------------|---------------|-------|-----|--------|----------|------------|------------|
| LB192011.002  | Arochlor 1260 | mg/kg | 0.2 | 0.4    | 0.4      | 60 - 140   | 88         |
| LB192012.002  | Arochlor 1260 | mg/kg | 0.2 | 0.4    | 0.4      | 60 - 140   | 89         |

#### Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

| Sample Number | Parameter    | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---------------|--------------|-------|-----|--------|----------|------------|------------|
| LB192092.002  | Arsenic, As  | mg/kg | 1   | 340    | 318.22   | 80 - 120   | 107        |
|               | Cadmium, Cd  | mg/kg | 0.3 | 5.2    | 5.41     | 80 - 120   | 97         |
|               | Chromium, Cr | mg/kg | 0.5 | 37     | 38.31    | 80 - 120   | 96         |
|               | Copper, Cu   | mg/kg | 0.5 | 310    | 290      | 80 - 120   | 108        |
|               | Nickel, Ni   | mg/kg | 0.5 | 190    | 187      | 80 - 120   | 101        |
|               | Lead, Pb     | mg/kg | 1   | 98     | 89.9     | 80 - 120   | 109        |
| LB192093.002  | Zinc, Zn     | mg/kg | 2   | 290    | 273      | 80 - 120   | 105        |
|               | Arsenic, As  | mg/kg | 1   | 340    | 318.22   | 80 - 120   | 108        |
|               | Cadmium, Cd  | mg/kg | 0.3 | 5.3    | 5.41     | 80 - 120   | 98         |
|               | Chromium, Cr | mg/kg | 0.5 | 38     | 38.31    | 80 - 120   | 99         |
|               | Copper, Cu   | mg/kg | 0.5 | 320    | 290      | 80 - 120   | 109        |
|               | Nickel, Ni   | mg/kg | 0.5 | 190    | 187      | 80 - 120   | 102        |
| LB192093.002  | Lead, Pb     | mg/kg | 1   | 99     | 89.9     | 80 - 120   | 110        |
|               | Zinc, Zn     | mg/kg | 2   | 290    | 273      | 80 - 120   | 107        |

#### TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

| Sample Number | Parameter         | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---------------|-------------------|-------|-----|--------|----------|------------|------------|
| LB192011.002  | TRH C10-C14       | mg/kg | 20  | 43     | 40       | 60 - 140   | 108        |
|               | TRH C15-C28       | mg/kg | 45  | <45    | 40       | 60 - 140   | 108        |
|               | TRH C29-C36       | mg/kg | 45  | <45    | 40       | 60 - 140   | 75         |
|               | TRH F Bands       | mg/kg | 25  | 40     | 40       | 60 - 140   | 100        |
|               | TRH >C10-C16      | mg/kg | 90  | <90    | 40       | 60 - 140   | 103        |
|               | TRH >C34-C40 (F4) | mg/kg | 120 | <120   | 20       | 60 - 140   | 80         |
| LB192012.002  | TRH C10-C14       | mg/kg | 20  | 40     | 40       | 60 - 140   | 100        |
|               | TRH C15-C28       | mg/kg | 45  | <45    | 40       | 60 - 140   | 90         |
|               | TRH C29-C36       | mg/kg | 45  | <45    | 40       | 60 - 140   | 75         |
|               | TRH F Bands       | mg/kg | 25  | 38     | 40       | 60 - 140   | 95         |
|               | TRH >C10-C16      | mg/kg | 90  | <90    | 40       | 60 - 140   | 85         |
|               | TRH >C34-C40 (F4) | mg/kg | 120 | <120   | 20       | 60 - 140   | 80         |

#### VOC's in Soil

Method: ME-(AU)-[ENV]AN433

| Sample Number |            | Parameter                         | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---------------|------------|-----------------------------------|-------|-----|--------|----------|------------|------------|
| LB192008.002  | Monocyclic | Benzene                           | mg/kg | 0.1 | 3.9    | 5        | 60 - 140   | 79         |
|               | Aromatic   | Toluene                           | mg/kg | 0.1 | 4.1    | 5        | 60 - 140   | 81         |
|               |            | Ethylbenzene                      | mg/kg | 0.1 | 4.0    | 5        | 60 - 140   | 80         |
|               |            | m/p-xylene                        | mg/kg | 0.2 | 8.1    | 10       | 60 - 140   | 81         |
|               | o-xylene   | mg/kg                             | 0.1   | 4.0 | 5      | 60 - 140 | 80         |            |
|               | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | -   | 11.7   | 10       | 70 - 130   | 117        |
|               |            | d8-toluene (Surrogate)            | mg/kg | -   | 11.6   | 10       | 70 - 130   | 116        |
|               |            | Bromofluorobenzene (Surrogate)    | mg/kg | -   | 10.8   | 10       | 70 - 130   | 108        |
| LB192009.002  | Monocyclic | Benzene                           | mg/kg | 0.1 | 4.3    | 5        | 60 - 140   | 86         |
|               | Aromatic   | Toluene                           | mg/kg | 0.1 | 4.3    | 5        | 60 - 140   | 87         |
|               |            | Ethylbenzene                      | mg/kg | 0.1 | 4.2    | 5        | 60 - 140   | 84         |
|               |            | m/p-xylene                        | mg/kg | 0.2 | 8.4    | 10       | 60 - 140   | 84         |
|               | o-xylene   | mg/kg                             | 0.1   | 4.2 | 5      | 60 - 140 | 83         |            |
|               | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | -   | 9.0    | 10       | 70 - 130   | 90         |
|               |            | d8-toluene (Surrogate)            | mg/kg | -   | 9.4    | 10       | 70 - 130   | 94         |
|               |            | Bromofluorobenzene (Surrogate)    | mg/kg | -   | 8.9    | 10       | 70 - 130   | 89         |

#### Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

| Sample Number | Parameter   | Units                             | LOR   | Result | Expected | Criteria % | Recovery % |     |
|---------------|-------------|-----------------------------------|-------|--------|----------|------------|------------|-----|
| LB192008.002  | TRH C6-C10  | mg/kg                             | 25    | 86     | 92.5     | 60 - 140   | 93         |     |
|               | TRH C6-C9   | mg/kg                             | 20    | 75     | 80       | 60 - 140   | 93         |     |
|               | Surrogates  | d4-1,2-dichloroethane (Surrogate) | mg/kg | -      | 11.7     | 10         | 70 - 130   | 117 |
|               |             | Bromofluorobenzene (Surrogate)    | mg/kg | -      | 10.8     | 10         | 70 - 130   | 108 |
|               | VPH F Bands | TRH C6-C10 minus BTEX (F1)        | mg/kg | 25     | 62       | 62.5       | 60 - 140   | 99  |
| LB192009.002  | TRH C6-C10  | mg/kg                             | 25    | 67     | 92.5     | 60 - 140   | 72         |     |

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

## Volatile Petroleum Hydrocarbons in Soil (continued)

Method: ME-(AU)-[ENV]AN433

| Sample Number | Parameter                         | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---------------|-----------------------------------|-------|-----|--------|----------|------------|------------|
| LB192009.002  | TRH C6-C9                         | mg/kg | 20  | 58     | 80       | 60 - 140   | 72         |
|               | Surrogates                        |       |     |        |          |            |            |
|               | d4-1,2-dichloroethane (Surrogate) | mg/kg | -   | 9.0    | 10       | 70 - 130   | 90         |
|               | Bromofluorobenzene (Surrogate)    | mg/kg | -   | 8.9    | 10       | 70 - 130   | 89         |
| VPH F Bands   | TRH C6-C10 minus BTEX (F1)        | mg/kg | 25  | 41     | 62.5     | 60 - 140   | 66         |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## Mercury in Soil

Method: ME-(AU)-[ENV]AN312

| QC Sample    | Sample Number | Parameter | Units | LOR  | Result | Original | Spike | Recovery% |
|--------------|---------------|-----------|-------|------|--------|----------|-------|-----------|
| SE202202.001 | LB192094.004  | Mercury   | mg/kg | 0.05 | 0.20   | <0.05    | 0.2   | 97        |
| SE202202.016 | LB192095.004  | Mercury   | mg/kg | 0.05 | 0.18   | <0.05    | 0.2   | 87        |

## OP Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

| QC Sample    | Sample Number | Parameter                         | Units | LOR | Result | Original | Spike | Recovery% |
|--------------|---------------|-----------------------------------|-------|-----|--------|----------|-------|-----------|
| SE202202.016 | LB192012.004  | Dichlorvos                        | mg/kg | 0.5 | 1.5    | <0.5     | 2     | 74        |
|              |               | Dimethoate                        | mg/kg | 0.5 | <0.5   | <0.5     | -     | -         |
|              |               | Diazinon (Dimpylate)              | mg/kg | 0.5 | 2.3    | <0.5     | 2     | 113       |
|              |               | Fenitrothion                      | mg/kg | 0.2 | <0.2   | <0.2     | -     | -         |
|              |               | Malathion                         | mg/kg | 0.2 | <0.2   | <0.2     | -     | -         |
|              |               | Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | 1.8    | <0.2     | 2     | 88        |
|              |               | Parathion-ethyl (Parathion)       | mg/kg | 0.2 | <0.2   | <0.2     | -     | -         |
|              |               | Bromophos Ethyl                   | mg/kg | 0.2 | <0.2   | <0.2     | -     | -         |
|              |               | Methidathion                      | mg/kg | 0.5 | <0.5   | <0.5     | -     | -         |
|              |               | Ethion                            | mg/kg | 0.2 | 1.9    | <0.2     | 2     | 95        |
|              |               | Azinphos-methyl (Guthion)         | mg/kg | 0.2 | <0.2   | <0.2     | -     | -         |
|              |               | Total OP Pesticides*              | mg/kg | 1.7 | 7.4    | <1.7     | -     | -         |
|              | Surrogates    | 2-fluorobiphenyl (Surrogate)      | mg/kg | -   | 0.5    | 0.6      | -     | 90        |
|              |               | d14-p-terphenyl (Surrogate)       | mg/kg | -   | 0.4    | 0.6      | -     | 88        |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

| QC Sample    | Sample Number | Parameter                             | Units       | LOR | Result | Original | Spike | Recovery% |
|--------------|---------------|---------------------------------------|-------------|-----|--------|----------|-------|-----------|
| SE202202.016 | LB192012.004  | Naphthalene                           | mg/kg       | 0.1 | 4.4    | <0.1     | 4     | 110       |
|              |               | 2-methylnaphthalene                   | mg/kg       | 0.1 | <0.1   | <0.1     | -     | -         |
|              |               | 1-methylnaphthalene                   | mg/kg       | 0.1 | <0.1   | <0.1     | -     | -         |
|              |               | Acenaphthylene                        | mg/kg       | 0.1 | 4.9    | <0.1     | 4     | 123       |
|              |               | Acenaphthene                          | mg/kg       | 0.1 | 4.6    | <0.1     | 4     | 114       |
|              |               | Fluorene                              | mg/kg       | 0.1 | <0.1   | <0.1     | -     | -         |
|              |               | Phenanthrene                          | mg/kg       | 0.1 | 4.6    | <0.1     | 4     | 116       |
|              |               | Anthracene                            | mg/kg       | 0.1 | 4.4    | <0.1     | 4     | 110       |
|              |               | Fluoranthene                          | mg/kg       | 0.1 | 4.7    | <0.1     | 4     | 117       |
|              |               | Pyrene                                | mg/kg       | 0.1 | 4.9    | <0.1     | 4     | 123       |
|              |               | Benzo(a)anthracene                    | mg/kg       | 0.1 | <0.1   | <0.1     | -     | -         |
|              |               | Chrysene                              | mg/kg       | 0.1 | <0.1   | <0.1     | -     | -         |
|              |               | Benzo(b&j)fluoranthene                | mg/kg       | 0.1 | <0.1   | <0.1     | -     | -         |
|              |               | Benzo(k)fluoranthene                  | mg/kg       | 0.1 | <0.1   | <0.1     | -     | -         |
|              |               | Benzo(a)pyrene                        | mg/kg       | 0.1 | 5.0    | <0.1     | 4     | 125       |
|              |               | Indeno(1,2,3-cd)pyrene                | mg/kg       | 0.1 | <0.1   | <0.1     | -     | -         |
|              |               | Dibenzo(ah)anthracene                 | mg/kg       | 0.1 | <0.1   | <0.1     | -     | -         |
|              |               | Benzo(ghi)perylene                    | mg/kg       | 0.1 | <0.1   | <0.1     | -     | -         |
|              |               | Carcinogenic PAHs, BaP TEQ <LOR=0     | TEQ (mg/kg) | 0.2 | 5.0    | <0.2     | -     | -         |
|              |               | Carcinogenic PAHs, BaP TEQ <LOR=LOR   | TEQ (mg/kg) | 0.3 | 5.1    | <0.3     | -     | -         |
|              |               | Carcinogenic PAHs, BaP TEQ <LOR=LOR/2 | TEQ (mg/kg) | 0.2 | 5.1    | <0.2     | -     | -         |
|              |               | Total PAH (18)                        | mg/kg       | 0.8 | 38     | <0.8     | -     | -         |
|              | Surrogates    | d5-nitrobenzene (Surrogate)           | mg/kg       | -   | 0.4    | 0.5      | -     | 86        |
|              |               | 2-fluorobiphenyl (Surrogate)          | mg/kg       | -   | 0.5    | 0.6      | -     | 90        |
|              |               | d14-p-terphenyl (Surrogate)           | mg/kg       | -   | 0.4    | 0.6      | -     | 88        |
|              |               |                                       |             |     |        |          |       |           |

## Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

| QC Sample    | Sample Number | Parameter    | Units | LOR | Result | Original | Spike | Recovery% |
|--------------|---------------|--------------|-------|-----|--------|----------|-------|-----------|
| SE202202.001 | LB192092.004  | Arsenic, As  | mg/kg | 1   | 47     | 2        | 50    | 91        |
|              |               | Cadmium, Cd  | mg/kg | 0.3 | 44     | <0.3     | 50    | 88        |
|              |               | Chromium, Cr | mg/kg | 0.5 | 51     | 6.8      | 50    | 89        |
|              |               | Copper, Cu   | mg/kg | 0.5 | 62     | 17       | 50    | 89        |
|              |               | Nickel, Ni   | mg/kg | 0.5 | 49     | 3.7      | 50    | 90        |
|              |               | Lead, Pb     | mg/kg | 1   | 52     | 10       | 50    | 85        |
|              |               | Zinc, Zn     | mg/kg | 2   | 67     | 22       | 50    | 89        |
| SE202202.016 | LB192093.004  | Arsenic, As  | mg/kg | 1   | 46     | 3        | 50    | 86        |
|              |               | Cadmium, Cd  | mg/kg | 0.3 | 42     | <0.3     | 50    | 83        |
|              |               | Chromium, Cr | mg/kg | 0.5 | 53     | 10       | 50    | 84        |
|              |               | Copper, Cu   | mg/kg | 0.5 | 76     | 37       | 50    | 78        |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

#### Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued)

Method: ME-(AU)-[ENV]AN040/AN320

| QC Sample    | Sample Number | Parameter  | Units | LOR | Result | Original | Spike | Recovery% |
|--------------|---------------|------------|-------|-----|--------|----------|-------|-----------|
| SE202202.016 | LB192093.004  | Nickel, Ni | mg/kg | 0.5 | 50     | 8.3      | 50    | 84        |
|              |               | Lead, Pb   | mg/kg | 1   | 60     | 23       | 50    | 75        |
|              |               | Zinc, Zn   | mg/kg | 2   | 92     | 55       | 50    | 74        |

#### TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

| QC Sample    | Sample Number | Parameter                       | Units | LOR | Result | Original | Spike | Recovery% |
|--------------|---------------|---------------------------------|-------|-----|--------|----------|-------|-----------|
| SE202202.001 | LB192011.004  | TRH C10-C14                     | mg/kg | 20  | 54     | <20      | 40    | 135       |
|              |               | TRH C15-C28                     | mg/kg | 45  | <45    | <45      | 40    | 105       |
|              |               | TRH C29-C36                     | mg/kg | 45  | <45    | <45      | 40    | 83        |
|              |               | TRH C37-C40                     | mg/kg | 100 | <100   | <100     | -     | -         |
|              |               | TRH C10-C36 Total               | mg/kg | 110 | <110   | <110     | -     | -         |
|              |               | TRH >C10-C40 Total (F bands)    | mg/kg | 210 | <210   | <210     | -     | -         |
|              |               | TRH F Bands                     | mg/kg | 25  | 50     | <25      | 40    | 125       |
|              |               | TRH >C10-C16                    | mg/kg | 25  | 50     | <25      | -     | -         |
|              |               | TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25  | 50     | <25      | -     | -         |
|              |               | TRH >C16-C34 (F3)               | mg/kg | 90  | <90    | <90      | 40    | 98        |
|              |               | TRH >C34-C40 (F4)               | mg/kg | 120 | <120   | <120     | -     | -         |
| SE202202.016 | LB192012.004  | TRH C10-C14                     | mg/kg | 20  | 44     | <20      | 40    | 110       |
|              |               | TRH C15-C28                     | mg/kg | 45  | <45    | <45      | 40    | 88        |
|              |               | TRH C29-C36                     | mg/kg | 45  | <45    | <45      | 40    | 70        |
|              |               | TRH C37-C40                     | mg/kg | 100 | <100   | <100     | -     | -         |
|              |               | TRH C10-C36 Total               | mg/kg | 110 | <110   | <110     | -     | -         |
|              |               | TRH >C10-C40 Total (F bands)    | mg/kg | 210 | <210   | <210     | -     | -         |
|              |               | TRH F Bands                     | mg/kg | 25  | 40     | <25      | 40    | 100       |
|              |               | TRH >C10-C16                    | mg/kg | 25  | 26     | <25      | -     | -         |
|              |               | TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25  | 26     | <25      | -     | -         |
|              |               | TRH >C16-C34 (F3)               | mg/kg | 90  | <90    | <90      | 40    | 80        |
|              |               | TRH >C34-C40 (F4)               | mg/kg | 120 | <120   | <120     | -     | -         |

#### VOC's in Soil

Method: ME-(AU)-[ENV]AN433

| QC Sample    | Sample Number |              | Parameter                         | Units   | LOR   | Result | Original | Spike | Recovery% |
|--------------|---------------|--------------|-----------------------------------|---------|-------|--------|----------|-------|-----------|
| SE202202.001 | LB192008.004  | Monocyclic   | Benzene                           | mg/kg   | 0.1   | 3.4    | <0.1     | 5     | 68        |
|              |               |              | Aromatic                          | Toluene | mg/kg | 0.1    | 3.6      | <0.1  | 5         |
|              |               | Ethylbenzene |                                   | mg/kg   | 0.1   | 3.7    | <0.1     | 5     | 74        |
|              |               | m/p-xylene   |                                   | mg/kg   | 0.2   | 7.5    | <0.2     | 10    | 74        |
|              |               | o-xylene     |                                   | mg/kg   | 0.1   | 4.0    | <0.1     | 5     | 79        |
|              |               | Polycyclic   | Naphthalene                       | mg/kg   | 0.1   | <0.1   | <0.1     | -     | -         |
|              |               | Surrogates   | d4-1,2-dichloroethane (Surrogate) | mg/kg   | -     | 11.4   | 10.7     | 10    | 114       |
|              |               |              | d8-toluene (Surrogate)            | mg/kg   | -     | 11.4   | 10.5     | 10    | 114       |
|              |               |              | Bromofluorobenzene (Surrogate)    | mg/kg   | -     | 12.3   | 9.9      | 10    | 123       |
|              |               | Totals       | Total Xylenes                     | mg/kg   | 0.3   | 11     | <0.3     | -     | -         |
| Total BTEX   | mg/kg         |              | 0.6                               | 22      | <0.6  | -      | -        |       |           |
| SE202202.016 | LB192009.004  | Monocyclic   | Benzene                           | mg/kg   | 0.1   | 4.2    | <0.1     | 5     | 83        |
|              |               |              | Aromatic                          | Toluene | mg/kg | 0.1    | 4.2      | <0.1  | 5         |
|              |               | Ethylbenzene |                                   | mg/kg   | 0.1   | 4.1    | <0.1     | 5     | 82        |
|              |               | m/p-xylene   |                                   | mg/kg   | 0.2   | 8.4    | <0.2     | 10    | 83        |
|              |               | o-xylene     |                                   | mg/kg   | 0.1   | 4.1    | <0.1     | 5     | 82        |
|              |               | Polycyclic   | Naphthalene                       | mg/kg   | 0.1   | <0.1   | <0.1     | -     | -         |
|              |               | Surrogates   | d4-1,2-dichloroethane (Surrogate) | mg/kg   | -     | 8.6    | 8.0      | 10    | 86        |
|              |               |              | d8-toluene (Surrogate)            | mg/kg   | -     | 9.0    | 8.3      | 10    | 90        |
|              |               |              | Bromofluorobenzene (Surrogate)    | mg/kg   | -     | 8.8    | 8.5      | 10    | 88        |
|              |               | Totals       | Total Xylenes                     | mg/kg   | 0.3   | 12     | <0.3     | -     | -         |
| Total BTEX   | mg/kg         |              | 0.6                               | 25      | <0.6  | -      | -        |       |           |

#### Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

| QC Sample    | Sample Number | Parameter    | Units                             | LOR                        | Result     | Original | Spike | Recovery% |      |
|--------------|---------------|--------------|-----------------------------------|----------------------------|------------|----------|-------|-----------|------|
| SE202202.001 | LB192008.004  | TRH C6-C10   | mg/kg                             | 25                         | 71         | <25      | 92.5  | 76        |      |
|              |               | TRH C6-C9    | mg/kg                             | 20                         | 62         | <20      | 80    | 77        |      |
|              |               | Surrogates   | d4-1,2-dichloroethane (Surrogate) | mg/kg                      | -          | 11.4     | 10.7  | 10        | 114  |
|              |               |              | d8-toluene (Surrogate)            | mg/kg                      | -          | 11.4     | 10.5  | 10        | 114  |
|              |               |              | Bromofluorobenzene (Surrogate)    | mg/kg                      | -          | 12.3     | 9.9   | -         | 123  |
|              |               | VPH F        | Benzene (F0)                      | mg/kg                      | 0.1        | 3.4      | <0.1  | -         | -    |
|              |               |              | Bands                             | TRH C6-C10 minus BTEX (F1) | mg/kg      | 25       | 48    | <25       | 62.5 |
|              |               | SE202202.016 |                                   | LB192009.004               | TRH C6-C10 | mg/kg    | 25    | 63        | <25  |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

**Volatile Petroleum Hydrocarbons in Soil (continued)****Method: ME-(AU)-[ENV]AN433**

| QC Sample    | Sample Number | Parameter                         | Units | LOR | Result | Original | Spike | Recovery% |
|--------------|---------------|-----------------------------------|-------|-----|--------|----------|-------|-----------|
| SE202202.016 | LB192009.004  | TRH C6-C9                         | mg/kg | 20  | 54     | <20      | 80    | 68        |
|              |               | Surrogates                        |       |     |        |          |       |           |
|              |               | d4-1,2-dichloroethane (Surrogate) | mg/kg | -   | 8.6    | 8.0      | 10    | 86        |
|              |               | d8-toluene (Surrogate)            | mg/kg | -   | 9.0    | 8.3      | 10    | 90        |
|              |               | Bromofluorobenzene (Surrogate)    | mg/kg | -   | 8.8    | 8.5      | -     | 88        |
|              |               | VPH F                             |       |     |        |          |       |           |
|              |               | Benzene (F0)                      | mg/kg | 0.1 | 4.2    | <0.1     | -     | -         |
|              |               | Bands                             |       |     |        |          |       |           |
|              |               | TRH C6-C10 minus BTEX (F1)        | mg/kg | 25  | 38     | <25      | 62.5  | 61        |

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula:  $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula:  $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No matrix spike duplicates were required for this job.

id samples expressed on a dry weight basis.

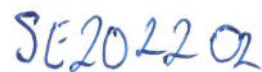
criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: [https://www.sgs.com.au/~media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022\\_QA\\_QC\\_Plan.pdf](https://www.sgs.com.au/~media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022_QA_QC_Plan.pdf)

- \* NATA accreditation does not cover the performance of this service .
  - \*\* Indicative data, theoretical holding time exceeded.
  - Sample not analysed for this analyte.
  - IS Insufficient sample for analysis.
  - LNR Sample listed, but not received.
  - LOR Limit of reporting.
  - QFH QC result is above the upper tolerance.
  - QFL QC result is below the lower tolerance.
- 
- ① At least 2 of 3 surrogates are within acceptance criteria.
  - ② RPD failed acceptance criteria due to sample heterogeneity.
  - ③ Results less than 5 times LOR preclude acceptance criteria for RPD.
  - ④ Recovery failed acceptance criteria due to matrix interference.
  - ⑤ Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
  - ⑥ LOR was raised due to sample matrix interference.
  - ⑦ LOR was raised due to dilution of significantly high concentration of analyte in sample.
  - ⑧ Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
  - ⑨ Recovery failed acceptance criteria due to sample heterogeneity.
  - ⑩ LOR was raised due to high conductivity of the sample (required dilution).
  - † Refer to relevant report comments for further information.

This document is issued by the Company under its General Conditions of Service accessible at [www.sgs.com/en/Terms-and-Conditions.aspx](http://www.sgs.com/en/Terms-and-Conditions.aspx). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law .

This test report shall not be reproduced, except in full.



## Chain of Custody Record

[illegible]

**NOTES:**

**Land & Groundwater Consulting Pty Ltd ABN 65 162 117 928**  
**13/80-84 Illawarra Road**  
**Marrickville NSW 2204**

web [www.lgconsult.com.au](http://www.lgconsult.com.au)  
email  
email [gparra@lgconsult.com.au](mailto:gparra@lgconsult.com.au)



## SAMPLE RECEIPT ADVICE

SE202202

### CLIENT DETAILS

Contact Gonzalo Parra  
Client LAND AND GROUNDWATER CONSULTING PTY LTD  
Address 131 B Riverview Road  
NSW 2204

Telephone 61 2 95598424  
Facsimile (Not specified)  
Email gparra@lgconsult.com.au

Project **104 Fifteenth Avenue, West Hoxton, NSW**  
Order Number **LG1948.01**  
Samples 32

### LABORATORY DETAILS

Manager Huong Crawford  
Laboratory SGS Alexandria Environmental  
Address Unit 16, 33 Maddox St  
Alexandria NSW 2015

Telephone +61 2 8594 0400  
Facsimile +61 2 8594 0499  
Email au.environmental.sydney@sgs.com

Samples Received Tue 28/1/2020  
Report Due Tue 4/2/2020  
SGS Reference **SE202202**

### SUBMISSION DETAILS

This is to confirm that 32 samples were received on Tuesday 28/1/2020. Results are expected to be ready by COB Tuesday 4/2/2020. Please quote SGS reference SE202202 when making enquiries. Refer below for details relating to sample integrity upon receipt.

|                                        |           |                                    |                     |
|----------------------------------------|-----------|------------------------------------|---------------------|
| Samples clearly labelled               | Yes       | Complete documentation received    | Yes                 |
| Sample container provider              | SGS       | Sample cooling method              | Ice Bricks          |
| Samples received in correct containers | Yes       | Sample counts by matrix            | 30 Soil, 2 Material |
| Date documentation received            | 28/1/2020 | Type of documentation received     | COC                 |
| Samples received in good order         | Yes       | Samples received without headspace | Yes                 |
| Sample temperature upon receipt        | 20°C      | Sufficient sample for analysis     | Yes                 |
| Turnaround time requested              | Standard  |                                    |                     |

Unless otherwise instructed, water and bulk samples will be held for one month from date of report, and soil samples will be held for two months.

### COMMENTS

27 soil samples have been placed on hold as no tests have been assigned for them by the client. These samples will not be processed.

This document is issued by the Company under its General Conditions of Service accessible at [www.sgs.com/en/Terms-and-Conditions.aspx](http://www.sgs.com/en/Terms-and-Conditions.aspx). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

## CLIENT DETAILS

Client **LAND AND GROUNDWATER CONSULTING PTY LTD**

Project **104 Fifteenth Avenue, West Hoxton, NSW**

## SUMMARY OF ANALYSIS

| No. | Sample ID    | OC Pesticides in Soil | OP Pesticides in Soil | PAH (Polynuclear Aromatic Hydrocarbons) in Soil | PCBs in Soil | Total Recoverable Elements in Soil/Waste | TRH (Total Recoverable Hydrocarbons) in Soil | VOC's in Soil | Volatile Petroleum Hydrocarbons in Soil |
|-----|--------------|-----------------------|-----------------------|-------------------------------------------------|--------------|------------------------------------------|----------------------------------------------|---------------|-----------------------------------------|
| 001 | BH1/0.1-0.3  | -                     | -                     | -                                               | -            | 7                                        | 10                                           | 11            | 7                                       |
| 002 | BH2/0.1-0.3  | -                     | -                     | -                                               | -            | 7                                        | 10                                           | 11            | 7                                       |
| 003 | BH3/0.1-0.3  | -                     | -                     | -                                               | -            | 7                                        | 10                                           | 11            | 7                                       |
| 004 | BH4/0.1-0.3  | -                     | -                     | -                                               | -            | 7                                        | 10                                           | 11            | 7                                       |
| 005 | BH5/0.1-0.3  | -                     | -                     | -                                               | -            | 7                                        | 10                                           | 11            | 7                                       |
| 006 | BH6/0.1-0.3  | -                     | -                     | -                                               | -            | 7                                        | 10                                           | 11            | 7                                       |
| 007 | BH7/0.1-0.3  | -                     | -                     | -                                               | -            | 7                                        | 10                                           | 11            | 7                                       |
| 008 | BH8/0.1-0.3  | -                     | -                     | -                                               | -            | 7                                        | 10                                           | 11            | 7                                       |
| 009 | BH9/0.1-0.3  | 29                    | 14                    | 26                                              | 11           | 7                                        | 10                                           | 11            | 7                                       |
| 010 | BH10/0.1-0.3 | 29                    | 14                    | 26                                              | 11           | 7                                        | 10                                           | 11            | 7                                       |
| 011 | BH11/0.1-0.3 | 29                    | 14                    | 26                                              | 11           | 7                                        | 10                                           | 11            | 7                                       |
| 012 | BH12/0.1-0.3 | 29                    | 14                    | 26                                              | 11           | 7                                        | 10                                           | 11            | 7                                       |
| 013 | BH13/0.1-0.3 | 29                    | 14                    | 26                                              | 11           | 7                                        | 10                                           | 11            | 7                                       |
| 014 | BH14/0.1-0.3 | 29                    | 14                    | 26                                              | 11           | 7                                        | 10                                           | 11            | 7                                       |
| 015 | BH15/0.1-0.3 | -                     | -                     | 26                                              | -            | 7                                        | 10                                           | 11            | 7                                       |
| 016 | BH16/0.1-0.3 | 29                    | 14                    | 26                                              | 11           | 7                                        | 10                                           | 11            | 7                                       |
| 017 | BH17/0.1-0.3 | 29                    | 14                    | 26                                              | 11           | 7                                        | 10                                           | 11            | 7                                       |
| 018 | BH18/0.1-0.3 | -                     | -                     | 26                                              | -            | 7                                        | 10                                           | 11            | 7                                       |
| 019 | BH19/0.1-0.3 | -                     | -                     | 26                                              | -            | 7                                        | 10                                           | 11            | 7                                       |
| 020 | BH20/0.1-0.3 | -                     | -                     | 26                                              | -            | 7                                        | 10                                           | 11            | 7                                       |
| 021 | BH21/0.1-0.3 | -                     | -                     | 26                                              | -            | 7                                        | 10                                           | 11            | 7                                       |
| 022 | BH22/0.1-0.3 | 29                    | 14                    | 26                                              | 11           | 7                                        | 10                                           | 11            | 7                                       |
| 023 | BH23/0.1-0.3 | 29                    | 14                    | 26                                              | 11           | 7                                        | 10                                           | 11            | 7                                       |
| 024 | BH24/0.1-0.3 | 29                    | 14                    | 26                                              | 11           | 7                                        | 10                                           | 11            | 7                                       |

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.

The numbers shown in the table indicate the number of results requested in each package.

Please indicate as soon as possible should your request differ from these details .

Testing as per this table shall commence immediately unless the client intervenes with a correction .

## CLIENT DETAILS

Client **LAND AND GROUNDWATER CONSULTING PTY LTD**

Project **104 Fifteenth Avenue, West Hoxton, NSW**

## SUMMARY OF ANALYSIS

| No. | Sample ID    | OC Pesticides in Soil | OP Pesticides in Soil | PAH (Polynuclear Aromatic Hydrocarbons) in Soil | PCBs in Soil | Total Recoverable Elements in Soil/Waste | TRH (Total Recoverable Hydrocarbons) in Soil | VOC's in Soil | Volatile Petroleum Hydrocarbons in Soil |
|-----|--------------|-----------------------|-----------------------|-------------------------------------------------|--------------|------------------------------------------|----------------------------------------------|---------------|-----------------------------------------|
| 025 | BH25/0.1-0.3 | -                     | -                     | 26                                              | -            | 7                                        | 10                                           | 11            | 7                                       |
| 026 | BH26/0.1-0.3 | -                     | -                     | 26                                              | -            | 7                                        | 10                                           | 11            | 7                                       |
| 027 | BH27/0.1-0.3 | -                     | -                     | 26                                              | -            | 7                                        | 10                                           | 11            | 7                                       |
| 028 | SP1/0.1-0.3  | 29                    | 14                    | 26                                              | 11           | 7                                        | 10                                           | 11            | 7                                       |
| 029 | QC1          | 29                    | 14                    | 26                                              | 11           | 7                                        | 10                                           | 11            | 7                                       |
| 030 | QC2          | -                     | -                     | 26                                              | -            | 7                                        | 10                                           | 11            | 7                                       |

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.  
The numbers shown in the table indicate the number of results requested in each package.  
Please indicate as soon as possible should your request differ from these details .  
Testing as per this table shall commence immediately unless the client intervenes with a correction .

### CLIENT DETAILS

Client **LAND AND GROUNDWATER CONSULTING PTY LTD**

Project **104 Fifteenth Avenue, West Hoxton, NSW**

### SUMMARY OF ANALYSIS

| No. | Sample ID    | Fibre Identification in soil | Mercury in Soil | Moisture Content |
|-----|--------------|------------------------------|-----------------|------------------|
| 001 | BH1/0.1-0.3  | 2                            | 1               | 1                |
| 002 | BH2/0.1-0.3  | 2                            | 1               | 1                |
| 003 | BH3/0.1-0.3  | 2                            | 1               | 1                |
| 004 | BH4/0.1-0.3  | 2                            | 1               | 1                |
| 005 | BH5/0.1-0.3  | 2                            | 1               | 1                |
| 006 | BH6/0.1-0.3  | 2                            | 1               | 1                |
| 007 | BH7/0.1-0.3  | 2                            | 1               | 1                |
| 008 | BH8/0.1-0.3  | 2                            | 1               | 1                |
| 009 | BH9/0.1-0.3  | 2                            | 1               | 1                |
| 010 | BH10/0.1-0.3 | 2                            | 1               | 1                |
| 011 | BH11/0.1-0.3 | 2                            | 1               | 1                |
| 012 | BH12/0.1-0.3 | 2                            | 1               | 1                |
| 013 | BH13/0.1-0.3 | 2                            | 1               | 1                |
| 014 | BH14/0.1-0.3 | 2                            | 1               | 1                |
| 015 | BH15/0.1-0.3 | 2                            | 1               | 1                |
| 016 | BH16/0.1-0.3 | 2                            | 1               | 1                |
| 017 | BH17/0.1-0.3 | 2                            | 1               | 1                |
| 018 | BH18/0.1-0.3 | 2                            | 1               | 1                |
| 019 | BH19/0.1-0.3 | 2                            | 1               | 1                |
| 020 | BH20/0.1-0.3 | 2                            | 1               | 1                |
| 021 | BH21/0.1-0.3 | 2                            | 1               | 1                |
| 022 | BH22/0.1-0.3 | 2                            | 1               | 1                |
| 023 | BH23/0.1-0.3 | 2                            | 1               | 1                |
| 024 | BH24/0.1-0.3 | 2                            | 1               | 1                |

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.

The numbers shown in the table indicate the number of results requested in each package.

Please indicate as soon as possible should your request differ from these details .

Testing as per this table shall commence immediately unless the client intervenes with a correction .

### CLIENT DETAILS

Client **LAND AND GROUNDWATER CONSULTING PTY LTD**

Project **104 Fifteenth Avenue, West Hoxton, NSW**

### SUMMARY OF ANALYSIS

| No. | Sample ID    | Fibre ID in bulk materials | Fibre Identification in soil | Mercury in Soil | Moisture Content |
|-----|--------------|----------------------------|------------------------------|-----------------|------------------|
| 025 | BH25/0.1-0.3 | -                          | 2                            | 1               | 1                |
| 026 | BH26/0.1-0.3 | -                          | 2                            | 1               | 1                |
| 027 | BH27/0.1-0.3 | -                          | 2                            | 1               | 1                |
| 028 | SP1/0.1-0.3  | -                          | 2                            | 1               | 1                |
| 029 | QC1          | -                          | 2                            | 1               | 1                |
| 030 | QC2          | -                          | -                            | 1               | 1                |
| 031 | PAC1         | 1                          | -                            | -               | -                |
| 032 | PAC2         | 1                          | -                            | -               | -                |

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.

The numbers shown in the table indicate the number of results requested in each package.

Please indicate as soon as possible should your request differ from these details .

Testing as per this table shall commence immediately unless the client intervenes with a correction .

## CLIENT DETAILS

Contact Gonzalo Parra  
 Client LAND AND GROUNDWATER CONSULTING PTY LTD  
 Address 131 B Riverview Road  
 NSW 2204

Telephone 61 2 95598424  
 Facsimile (Not specified)  
 Email gparra@lgconsult.com.au

Project **104 Fifteenth Avenue, West Hoxton, NSW**  
 Order Number **LG1948.01**  
 Samples 31

## LABORATORY DETAILS

Manager Huong Crawford  
 Laboratory SGS Alexandria Environmental  
 Address Unit 16, 33 Maddox St  
 Alexandria NSW 2015

Telephone +61 2 8594 0400  
 Facsimile +61 2 8594 0499  
 Email au.environmental.sydney@sgs.com

SGS Reference **SE202202 R0**  
 Date Received 28 Jan 2020  
 Date Reported 04 Feb 2020

## COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

No respirable fibres detected in all soil samples using trace analysis technique.

A portion of the sample supplied has been sub-sampled for asbestos analysis in soil according to SGS In-house procedures due to large volume. We therefore cannot guarantee that the sub-sample is representative of the entire sample supplied. SGS Environmental Services recommends supplying approximately 50-100g of sample in a separate container.

Sample # 5: Asbestos found as approx 20x10x4mm fibrous mass.

Sample # 6 : Asbestos found in approx 10x6x2mm cement sheet fragments.

Asbestos analysed by Approved Identifiers Yusuf Kuthpudin and Ravee Sivasubramaniam .

## SIGNATORIES



Akheeque BENIAMEEN  
 Chemist



Dong LIANG  
 Metals/Inorganics Team Leader



Ly Kim HA  
 Organic Section Head



Ravee SIVASUBRAMANIAM  
 Hygiene Team Leader

### RESULTS

Fibre Identification in soil

Method AN602

| Laboratory Reference | Client Reference | Matrix | Sample Description           | Date Sampled | Fibre Identification                                 | Est.%w/w* |
|----------------------|------------------|--------|------------------------------|--------------|------------------------------------------------------|-----------|
| SE202202.001         | BH1/0.1-0.3      | Soil   | 190g Clay, Rocks             | 28 Jan 2020  | No Asbestos Found                                    | <0.01     |
| SE202202.002         | BH2/0.1-0.3      | Soil   | 159g Clay, Rocks             | 28 Jan 2020  | No Asbestos Found                                    | <0.01     |
| SE202202.003         | BH3/0.1-0.3      | Soil   | 149g Clay, Rocks             | 28 Jan 2020  | No Asbestos Found                                    | <0.01     |
| SE202202.004         | BH4/0.1-0.3      | Soil   | 164g Clay, Soil, Rocks       | 28 Jan 2020  | No Asbestos Found                                    | <0.01     |
| SE202202.005         | BH5/0.1-0.3      | Soil   | 178g Clay, Soil, Rocks       | 28 Jan 2020  | Amosite Asbestos Found                               | >0.01     |
| SE202202.006         | BH6/0.1-0.3      | Soil   | 150g Clay, Sand, Soil, Rocks | 28 Jan 2020  | Chrysotile Asbestos Found<br>Organic Fibres Detected | >0.01     |
| SE202202.007         | BH7/0.1-0.3      | Soil   | 169g Clay, Soil, Rocks       | 28 Jan 2020  | No Asbestos Found                                    | <0.01     |
| SE202202.008         | BH8/0.1-0.3      | Soil   | 155g Clay, Soil, Rocks       | 28 Jan 2020  | No Asbestos Found                                    | <0.01     |
| SE202202.009         | BH9/0.1-0.3      | Soil   | 180g Clay, Soil, Rocks       | 28 Jan 2020  | No Asbestos Found                                    | <0.01     |
| SE202202.010         | BH10/0.1-0.3     | Soil   | 181g Clay, Rocks             | 28 Jan 2020  | No Asbestos Found                                    | <0.01     |
| SE202202.011         | BH11/0.1-0.3     | Soil   | 144g Clay, Soil, Rocks       | 28 Jan 2020  | No Asbestos Found                                    | <0.01     |
| SE202202.012         | BH12/0.1-0.3     | Soil   | 201g Clay, Soil, Rocks       | 28 Jan 2020  | No Asbestos Found                                    | <0.01     |
| SE202202.013         | BH13/0.1-0.3     | Soil   | 195g Clay, Sand, Soil, Rocks | 28 Jan 2020  | No Asbestos Found<br>Organic Fibres Detected         | <0.01     |
| SE202202.014         | BH14/0.1-0.3     | Soil   | 168g Clay, Sand, Soil, Rocks | 28 Jan 2020  | No Asbestos Found                                    | <0.01     |
| SE202202.015         | BH15/0.1-0.3     | Soil   | 227g Clay, Rocks             | 28 Jan 2020  | No Asbestos Found                                    | <0.01     |
| SE202202.016         | BH16/0.1-0.3     | Soil   | 177g Clay, Rocks             | 28 Jan 2020  | No Asbestos Found                                    | <0.01     |
| SE202202.017         | BH17/0.1-0.3     | Soil   | 127g Clay, Rocks             | 28 Jan 2020  | No Asbestos Found                                    | <0.01     |
| SE202202.018         | BH18/0.1-0.3     | Soil   | 144g Clay, Rocks             | 28 Jan 2020  | No Asbestos Found                                    | <0.01     |
| SE202202.019         | BH19/0.1-0.3     | Soil   | 160g Clay, Sand, Rocks       | 28 Jan 2020  | No Asbestos Found                                    | <0.01     |
| SE202202.020         | BH20/0.1-0.3     | Soil   | 181g Clay, Rocks             | 28 Jan 2020  | No Asbestos Found                                    | <0.01     |
| SE202202.021         | BH21/0.1-0.3     | Soil   | 196g Clay, Rocks             | 28 Jan 2020  | No Asbestos Found                                    | <0.01     |
| SE202202.022         | BH22/0.1-0.3     | Soil   | 181g Clay, Rocks             | 28 Jan 2020  | No Asbestos Found                                    | <0.01     |
| SE202202.023         | BH23/0.1-0.3     | Soil   | 181g Clay, Sand, Rocks       | 28 Jan 2020  | No Asbestos Found                                    | <0.01     |
| SE202202.024         | BH24/0.1-0.3     | Soil   | 173g Clay, Rocks             | 28 Jan 2020  | No Asbestos Found                                    | <0.01     |
| SE202202.025         | BH25/0.1-0.3     | Soil   | 169g Clay, Soil, Rocks       | 28 Jan 2020  | No Asbestos Found                                    | <0.01     |
| SE202202.026         | BH26/0.1-0.3     | Soil   | 220g Clay, Soil, Rocks       | 28 Jan 2020  | No Asbestos Found                                    | <0.01     |

### RESULTS

#### Fibre Identification in soil

Method AN602

| Laboratory Reference | Client Reference | Matrix | Sample Description     | Date Sampled | Fibre Identification                         | Est.%w/w* |
|----------------------|------------------|--------|------------------------|--------------|----------------------------------------------|-----------|
| SE202202.027         | BH27/0.1-0.3     | Soil   | 203g Clay, Rocks       | 28 Jan 2020  | No Asbestos Found                            | <0.01     |
| SE202202.028         | SP1/0.1-0.3      | Soil   | 153g Sand, Soil, Rocks | 28 Jan 2020  | No Asbestos Found<br>Organic Fibres Detected | <0.01     |
| SE202202.029         | QC1              | Soil   | 201g Clay, Rocks       | 28 Jan 2020  | No Asbestos Found                            | <0.01     |

## RESULTS

Fibre ID in bulk materials

Method AN602

| Laboratory Reference | Client Reference | Matrix | Sample Description              | Date Sampled | Fibre Identification                   | Est.%w/w* |
|----------------------|------------------|--------|---------------------------------|--------------|----------------------------------------|-----------|
| SE202202.031         | PAC1             | Other  | 20x15x4mm Cement sheet fragment | 28 Jan 2020  | Amosite & Chrysotile Asbestos Detected |           |
| SE202202.032         | PAC2             | Other  | 20x15x4mm Cement sheet fragment | 28 Jan 2020  | Amosite & Chrysotile Asbestos Detected |           |

## METHOD

## METHODOLOGY SUMMARY

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AN602 | Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.              |
| AN602 | Fibres/material that cannot be unequivocally identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf) The fibres detected may or may not be asbestos fibres.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| AN602 | AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states: "Depending upon sample condition and fibre type, the detection limit of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."                                                                                                                                                                                                                                                                                                              |
| AN602 | <p>The sample can be reported "no asbestos found at the reporting limit of 0.1 g/kg" (&lt;0.01%w/w) where AN602 section 4.5 of this method has been followed, and if-</p> <ul style="list-style-type: none"> <li>(a) no trace asbestos fibres have been detected (i.e. no 'respirable' fibres);</li> <li>(b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg; and</li> <li>(c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.</li> </ul> |

## FOOTNOTES

|             |   |                            |     |   |                                                                    |
|-------------|---|----------------------------|-----|---|--------------------------------------------------------------------|
| Amosite     | - | Brown Asbestos             | NA  | - | Not Analysed                                                       |
| Chrysotile  | - | White Asbestos             | LNR | - | Listed, Not Required                                               |
| Crocidolite | - | Blue Asbestos              | *   | - | NATA accreditation does not cover the performance of this service. |
| Amphiboles  | - | Amosite and/or Crocidolite | **  | - | Indicative data, theoretical holding time exceeded.                |

(In reference to soil samples only) This report does not comply with the analytical reporting recommendations in the Western Australian Department of Health Guidelines for the Assessment and Remediation and Management of Asbestos Contaminated sites in Western Australia - May 2009.

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.

Where reported: 'Asbestos Detected': Asbestos detected by polarised light microscopy, including dispersion staining.

Where reported: 'No Asbestos Found': No Asbestos Found by polarised light microscopy, including dispersion staining.

Where reported: 'UMF Detected': Mineral fibres of unknown type detected by polarised light microscopy, including dispersion staining. Confirmation by another independent analytical technique may be necessary.

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos-containing bulk materials using polarised light microscopy. This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: [www.sgs.com.au/en-gb/environment-health-and-safety](http://www.sgs.com.au/en-gb/environment-health-and-safety).

This document is issued by the Company under its General Conditions of Service accessible at [www.sgs.com/en/Terms-and-Conditions.aspx](http://www.sgs.com/en/Terms-and-Conditions.aspx). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

This test report shall not be reproduced, except in full.

## CLIENT DETAILS

**Contact** Gonzalo Parra  
**Client** LAND AND GROUNDWATER CONSULTING PTY LTD  
**Address** 131 B Riverview Road  
 NSW 2204  
  
**Telephone** 61 2 95598424  
**Facsimile** (Not specified)  
**Email** gparra@lgconsult.com.au  
  
**Project** 104 Fifteenth Avenue, West Hoxton, NSW  
**Order Number** LG1948.01  
**Samples** 32

## LABORATORY DETAILS

**Manager** Huong Crawford  
**Laboratory** SGS Alexandria Environmental  
**Address** Unit 16, 33 Maddox St  
 Alexandria NSW 2015  
  
**Telephone** +61 2 8594 0400  
**Facsimile** +61 2 8594 0499  
**Email** au.environmental.sydney@sgs.com  
  
**SGS Reference** SE202202 R0  
**Date Received** 28/1/2020  
**Date Reported** 4/2/2020

## COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

No respirable fibres detected in all soil samples using trace analysis technique.

A portion of the sample supplied has been sub-sampled for asbestos analysis in soil according to SGS In-house procedures due to large volume. We therefore cannot guarantee that the sub-sample is representative of the entire sample supplied. SGS Environmental Services recommends supplying approximately 50-100g of sample in a separate container.

Sample # 5: Asbestos found as approx 20x10x4mm fibrous mass.

Sample # 6 : Asbestos found in approx 10x6x2mm cement sheet fragments.

Asbestos analysed by Approved Identifiers Yusuf Kuthpudin and Ravee Sivasubramaniam .

## SIGNATORIES



**Akheeque BENIAEMEEN**  
Chemist



**Dong LIANG**  
Metals/Inorganics Team Leader



**Ly Kim HA**  
Organic Section Head



**Ravee SIVASUBRAMANIAM**  
Hygiene Team Leader

VOC's in Soil [AN433] Tested: 29/1/2020

| PARAMETER     | UOM   | LOR | BH1/0.1-0.3               | BH2/0.1-0.3               | BH3/0.1-0.3               | BH4/0.1-0.3               | BH5/0.1-0.3               |
|---------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|               |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|               |       |     | 28/1/2020<br>SE202202.001 | 28/1/2020<br>SE202202.002 | 28/1/2020<br>SE202202.003 | 28/1/2020<br>SE202202.004 | 28/1/2020<br>SE202202.005 |
| Benzene       | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Toluene       | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Ethylbenzene  | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| m/p-xylene    | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | <0.2                      |
| o-xylene      | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Total Xylenes | mg/kg | 0.3 | <0.3                      | <0.3                      | <0.3                      | <0.3                      | <0.3                      |
| Total BTEX    | mg/kg | 0.6 | <0.6                      | <0.6                      | <0.6                      | <0.6                      | <0.6                      |
| Naphthalene   | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |

| PARAMETER     | UOM   | LOR | BH6/0.1-0.3               | BH7/0.1-0.3               | BH8/0.1-0.3               | BH9/0.1-0.3               | BH10/0.1-0.3              |
|---------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|               |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|               |       |     | 28/1/2020<br>SE202202.006 | 28/1/2020<br>SE202202.007 | 28/1/2020<br>SE202202.008 | 28/1/2020<br>SE202202.009 | 28/1/2020<br>SE202202.010 |
| Benzene       | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Toluene       | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Ethylbenzene  | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| m/p-xylene    | mg/kg | 0.2 | <0.2                      | <b>0.4</b>                | <0.2                      | <0.2                      | <0.2                      |
| o-xylene      | mg/kg | 0.1 | <0.1                      | <b>0.1</b>                | <0.1                      | <0.1                      | <0.1                      |
| Total Xylenes | mg/kg | 0.3 | <0.3                      | <b>0.5</b>                | <0.3                      | <0.3                      | <0.3                      |
| Total BTEX    | mg/kg | 0.6 | <0.6                      | <0.6                      | <0.6                      | <0.6                      | <0.6                      |
| Naphthalene   | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |

| PARAMETER     | UOM   | LOR | BH11/0.1-0.3              | BH12/0.1-0.3              | BH13/0.1-0.3              | BH14/0.1-0.3              | BH15/0.1-0.3              |
|---------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|               |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|               |       |     | 28/1/2020<br>SE202202.011 | 28/1/2020<br>SE202202.012 | 28/1/2020<br>SE202202.013 | 28/1/2020<br>SE202202.014 | 28/1/2020<br>SE202202.015 |
| Benzene       | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Toluene       | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Ethylbenzene  | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| m/p-xylene    | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | <0.2                      |
| o-xylene      | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Total Xylenes | mg/kg | 0.3 | <0.3                      | <0.3                      | <0.3                      | <0.3                      | <0.3                      |
| Total BTEX    | mg/kg | 0.6 | <0.6                      | <0.6                      | <0.6                      | <0.6                      | <0.6                      |
| Naphthalene   | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |

| PARAMETER     | UOM   | LOR | BH16/0.1-0.3              | BH17/0.1-0.3              | BH18/0.1-0.3              | BH19/0.1-0.3              | BH20/0.1-0.3              |
|---------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|               |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|               |       |     | 28/1/2020<br>SE202202.016 | 28/1/2020<br>SE202202.017 | 28/1/2020<br>SE202202.018 | 28/1/2020<br>SE202202.019 | 28/1/2020<br>SE202202.020 |
| Benzene       | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Toluene       | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Ethylbenzene  | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| m/p-xylene    | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | <0.2                      |
| o-xylene      | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Total Xylenes | mg/kg | 0.3 | <0.3                      | <0.3                      | <0.3                      | <0.3                      | <0.3                      |
| Total BTEX    | mg/kg | 0.6 | <0.6                      | <0.6                      | <0.6                      | <0.6                      | <0.6                      |
| Naphthalene   | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |

VOC's in Soil [AN433] Tested: 29/1/2020 (continued)

| PARAMETER     | UOM   | LOR | BH21/0.1-0.3              | BH22/0.1-0.3              | BH23/0.1-0.3              | BH24/0.1-0.3              | BH25/0.1-0.3              |
|---------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|               |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|               |       |     | 28/1/2020<br>SE202202.021 | 28/1/2020<br>SE202202.022 | 28/1/2020<br>SE202202.023 | 28/1/2020<br>SE202202.024 | 28/1/2020<br>SE202202.025 |
| Benzene       | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Toluene       | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Ethylbenzene  | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| m/p-xylene    | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | <0.2                      |
| o-xylene      | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Total Xylenes | mg/kg | 0.3 | <0.3                      | <0.3                      | <0.3                      | <0.3                      | <0.3                      |
| Total BTEX    | mg/kg | 0.6 | <0.6                      | <0.6                      | <0.6                      | <0.6                      | <0.6                      |
| Naphthalene   | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |

| PARAMETER     | UOM   | LOR | BH26/0.1-0.3              | BH27/0.1-0.3              | SP1/0.1-0.3               | QC1                       | QC2                       |
|---------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|               |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|               |       |     | 28/1/2020<br>SE202202.026 | 28/1/2020<br>SE202202.027 | 28/1/2020<br>SE202202.028 | 28/1/2020<br>SE202202.029 | 28/1/2020<br>SE202202.030 |
| Benzene       | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Toluene       | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Ethylbenzene  | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| m/p-xylene    | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | <0.2                      |
| o-xylene      | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Total Xylenes | mg/kg | 0.3 | <0.3                      | <0.3                      | <0.3                      | <0.3                      | <0.3                      |
| Total BTEX    | mg/kg | 0.6 | <0.6                      | <0.6                      | <0.6                      | <0.6                      | <0.6                      |
| Naphthalene   | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |

## Volatile Petroleum Hydrocarbons in Soil [AN433]    Tested: 29/1/2020

| PARAMETER                  | UOM   | LOR | BH1/0.1-0.3               | BH2/0.1-0.3               | BH3/0.1-0.3               | BH4/0.1-0.3               | BH5/0.1-0.3               |
|----------------------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                            |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                            |       |     | -                         | -                         | -                         | -                         | -                         |
|                            |       |     | 28/1/2020<br>SE202202.001 | 28/1/2020<br>SE202202.002 | 28/1/2020<br>SE202202.003 | 28/1/2020<br>SE202202.004 | 28/1/2020<br>SE202202.005 |
| TRH C6-C9                  | mg/kg | 20  | <20                       | <20                       | <20                       | <20                       | <20                       |
| Benzene (F0)               | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| TRH C6-C10                 | mg/kg | 25  | <25                       | <25                       | <25                       | <25                       | <25                       |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25  | <25                       | <25                       | <25                       | <25                       | <25                       |

| PARAMETER                  | UOM   | LOR | BH6/0.1-0.3               | BH7/0.1-0.3               | BH8/0.1-0.3               | BH9/0.1-0.3               | BH10/0.1-0.3              |
|----------------------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                            |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                            |       |     | -                         | -                         | -                         | -                         | -                         |
|                            |       |     | 28/1/2020<br>SE202202.006 | 28/1/2020<br>SE202202.007 | 28/1/2020<br>SE202202.008 | 28/1/2020<br>SE202202.009 | 28/1/2020<br>SE202202.010 |
| TRH C6-C9                  | mg/kg | 20  | <20                       | <20                       | <20                       | <20                       | <20                       |
| Benzene (F0)               | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| TRH C6-C10                 | mg/kg | 25  | <25                       | <25                       | <25                       | <25                       | <25                       |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25  | <25                       | <25                       | <25                       | <25                       | <25                       |

| PARAMETER                  | UOM   | LOR | BH11/0.1-0.3              | BH12/0.1-0.3              | BH13/0.1-0.3              | BH14/0.1-0.3              | BH15/0.1-0.3              |
|----------------------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                            |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                            |       |     | -                         | -                         | -                         | -                         | -                         |
|                            |       |     | 28/1/2020<br>SE202202.011 | 28/1/2020<br>SE202202.012 | 28/1/2020<br>SE202202.013 | 28/1/2020<br>SE202202.014 | 28/1/2020<br>SE202202.015 |
| TRH C6-C9                  | mg/kg | 20  | <20                       | <20                       | <20                       | <20                       | <20                       |
| Benzene (F0)               | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| TRH C6-C10                 | mg/kg | 25  | <25                       | <25                       | <25                       | <25                       | <25                       |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25  | <25                       | <25                       | <25                       | <25                       | <25                       |

| PARAMETER                  | UOM   | LOR | BH16/0.1-0.3              | BH17/0.1-0.3              | BH18/0.1-0.3              | BH19/0.1-0.3              | BH20/0.1-0.3              |
|----------------------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                            |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                            |       |     | -                         | -                         | -                         | -                         | -                         |
|                            |       |     | 28/1/2020<br>SE202202.016 | 28/1/2020<br>SE202202.017 | 28/1/2020<br>SE202202.018 | 28/1/2020<br>SE202202.019 | 28/1/2020<br>SE202202.020 |
| TRH C6-C9                  | mg/kg | 20  | <20                       | <20                       | <20                       | <20                       | <20                       |
| Benzene (F0)               | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| TRH C6-C10                 | mg/kg | 25  | <25                       | <25                       | <25                       | <25                       | <25                       |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25  | <25                       | <25                       | <25                       | <25                       | <25                       |

| PARAMETER                  | UOM   | LOR | BH21/0.1-0.3              | BH22/0.1-0.3              | BH23/0.1-0.3              | BH24/0.1-0.3              | BH25/0.1-0.3              |
|----------------------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                            |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                            |       |     | -                         | -                         | -                         | -                         | -                         |
|                            |       |     | 28/1/2020<br>SE202202.021 | 28/1/2020<br>SE202202.022 | 28/1/2020<br>SE202202.023 | 28/1/2020<br>SE202202.024 | 28/1/2020<br>SE202202.025 |
| TRH C6-C9                  | mg/kg | 20  | <20                       | <20                       | <20                       | <20                       | <20                       |
| Benzene (F0)               | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| TRH C6-C10                 | mg/kg | 25  | <25                       | <25                       | <25                       | <25                       | <25                       |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25  | <25                       | <25                       | <25                       | <25                       | <25                       |

| PARAMETER                  | UOM   | LOR | BH26/0.1-0.3              | BH27/0.1-0.3              | SP1/0.1-0.3               | QC1                       | QC2                       |
|----------------------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                            |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                            |       |     | -                         | -                         | -                         | -                         | -                         |
|                            |       |     | 28/1/2020<br>SE202202.026 | 28/1/2020<br>SE202202.027 | 28/1/2020<br>SE202202.028 | 28/1/2020<br>SE202202.029 | 28/1/2020<br>SE202202.030 |
| TRH C6-C9                  | mg/kg | 20  | <20                       | <20                       | <20                       | <20                       | <20                       |
| Benzene (F0)               | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| TRH C6-C10                 | mg/kg | 25  | <25                       | <25                       | <25                       | <25                       | <25                       |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25  | <25                       | <25                       | <25                       | <25                       | <25                       |

TRH (Total Recoverable Hydrocarbons) in Soil [AN403]    Tested: 29/1/2020

| PARAMETER                       | UOM   | LOR | BH1/0.1-0.3               | BH2/0.1-0.3               | BH3/0.1-0.3               | BH4/0.1-0.3               | BH5/0.1-0.3               |
|---------------------------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                                 |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                                 |       |     | 28/1/2020<br>SE202202.001 | 28/1/2020<br>SE202202.002 | 28/1/2020<br>SE202202.003 | 28/1/2020<br>SE202202.004 | 28/1/2020<br>SE202202.005 |
| TRH C10-C14                     | mg/kg | 20  | <20                       | <20                       | <20                       | <20                       | <20                       |
| TRH C15-C28                     | mg/kg | 45  | <45                       | <45                       | <45                       | <45                       | <45                       |
| TRH C29-C36                     | mg/kg | 45  | <45                       | <45                       | <45                       | <45                       | <45                       |
| TRH C37-C40                     | mg/kg | 100 | <100                      | <100                      | <100                      | <100                      | <100                      |
| TRH >C10-C16                    | mg/kg | 25  | <25                       | <25                       | <25                       | <25                       | <25                       |
| TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25  | <25                       | <25                       | <25                       | <25                       | <25                       |
| TRH >C16-C34 (F3)               | mg/kg | 90  | <90                       | <90                       | <90                       | <90                       | <90                       |
| TRH >C34-C40 (F4)               | mg/kg | 120 | <120                      | <120                      | <120                      | <120                      | <120                      |
| TRH C10-C36 Total               | mg/kg | 110 | <110                      | <110                      | <110                      | <110                      | <110                      |
| TRH >C10-C40 Total (F bands)    | mg/kg | 210 | <210                      | <210                      | <210                      | <210                      | <210                      |

| PARAMETER                       | UOM   | LOR | BH6/0.1-0.3               | BH7/0.1-0.3               | BH8/0.1-0.3               | BH9/0.1-0.3               | BH10/0.1-0.3              |
|---------------------------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                                 |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                                 |       |     | 28/1/2020<br>SE202202.006 | 28/1/2020<br>SE202202.007 | 28/1/2020<br>SE202202.008 | 28/1/2020<br>SE202202.009 | 28/1/2020<br>SE202202.010 |
| TRH C10-C14                     | mg/kg | 20  | <20                       | <20                       | <20                       | <20                       | <20                       |
| TRH C15-C28                     | mg/kg | 45  | <45                       | <45                       | <45                       | <45                       | <45                       |
| TRH C29-C36                     | mg/kg | 45  | <45                       | <45                       | <45                       | <45                       | <45                       |
| TRH C37-C40                     | mg/kg | 100 | <100                      | <100                      | <100                      | <100                      | <100                      |
| TRH >C10-C16                    | mg/kg | 25  | <25                       | <25                       | <25                       | <25                       | <25                       |
| TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25  | <25                       | <25                       | <25                       | <25                       | <25                       |
| TRH >C16-C34 (F3)               | mg/kg | 90  | <90                       | <90                       | <90                       | <90                       | <90                       |
| TRH >C34-C40 (F4)               | mg/kg | 120 | <120                      | <120                      | <120                      | <120                      | <120                      |
| TRH C10-C36 Total               | mg/kg | 110 | <110                      | <110                      | <110                      | <110                      | <110                      |
| TRH >C10-C40 Total (F bands)    | mg/kg | 210 | <210                      | <210                      | <210                      | <210                      | <210                      |

| PARAMETER                       | UOM   | LOR | BH11/0.1-0.3              | BH12/0.1-0.3              | BH13/0.1-0.3              | BH14/0.1-0.3              | BH15/0.1-0.3              |
|---------------------------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                                 |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                                 |       |     | 28/1/2020<br>SE202202.011 | 28/1/2020<br>SE202202.012 | 28/1/2020<br>SE202202.013 | 28/1/2020<br>SE202202.014 | 28/1/2020<br>SE202202.015 |
| TRH C10-C14                     | mg/kg | 20  | <20                       | <20                       | <20                       | <20                       | <20                       |
| TRH C15-C28                     | mg/kg | 45  | <45                       | <45                       | <45                       | <45                       | <45                       |
| TRH C29-C36                     | mg/kg | 45  | <45                       | <45                       | <45                       | <45                       | <45                       |
| TRH C37-C40                     | mg/kg | 100 | <100                      | <100                      | <100                      | <100                      | <100                      |
| TRH >C10-C16                    | mg/kg | 25  | <25                       | <25                       | <25                       | <25                       | <25                       |
| TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25  | <25                       | <25                       | <25                       | <25                       | <25                       |
| TRH >C16-C34 (F3)               | mg/kg | 90  | <90                       | <90                       | <90                       | <90                       | <90                       |
| TRH >C34-C40 (F4)               | mg/kg | 120 | <120                      | <120                      | <120                      | <120                      | <120                      |
| TRH C10-C36 Total               | mg/kg | 110 | <110                      | <110                      | <110                      | <110                      | <110                      |
| TRH >C10-C40 Total (F bands)    | mg/kg | 210 | <210                      | <210                      | <210                      | <210                      | <210                      |

## TRH (Total Recoverable Hydrocarbons) in Soil [AN403]    Tested: 29/1/2020    (continued)

| PARAMETER                       | UOM   | LOR | BH16/0.1-0.3              | BH17/0.1-0.3              | BH18/0.1-0.3              | BH19/0.1-0.3              | BH20/0.1-0.3              |
|---------------------------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                                 |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                                 |       |     | 28/1/2020<br>SE202202.016 | 28/1/2020<br>SE202202.017 | 28/1/2020<br>SE202202.018 | 28/1/2020<br>SE202202.019 | 28/1/2020<br>SE202202.020 |
| TRH C10-C14                     | mg/kg | 20  | <20                       | <20                       | <20                       | <20                       | <20                       |
| TRH C15-C28                     | mg/kg | 45  | <45                       | <45                       | <45                       | <45                       | <45                       |
| TRH C29-C36                     | mg/kg | 45  | <45                       | <45                       | <45                       | <45                       | <45                       |
| TRH C37-C40                     | mg/kg | 100 | <100                      | <100                      | <100                      | <100                      | <100                      |
| TRH >C10-C16                    | mg/kg | 25  | <25                       | <25                       | <25                       | <25                       | <25                       |
| TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25  | <25                       | <25                       | <25                       | <25                       | <25                       |
| TRH >C16-C34 (F3)               | mg/kg | 90  | <90                       | <90                       | <90                       | <90                       | <90                       |
| TRH >C34-C40 (F4)               | mg/kg | 120 | <120                      | <120                      | <120                      | <120                      | <120                      |
| TRH C10-C36 Total               | mg/kg | 110 | <110                      | <110                      | <110                      | <110                      | <110                      |
| TRH >C10-C40 Total (F bands)    | mg/kg | 210 | <210                      | <210                      | <210                      | <210                      | <210                      |

| PARAMETER                       | UOM   | LOR | BH21/0.1-0.3              | BH22/0.1-0.3              | BH23/0.1-0.3              | BH24/0.1-0.3              | BH25/0.1-0.3              |
|---------------------------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                                 |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                                 |       |     | 28/1/2020<br>SE202202.021 | 28/1/2020<br>SE202202.022 | 28/1/2020<br>SE202202.023 | 28/1/2020<br>SE202202.024 | 28/1/2020<br>SE202202.025 |
| TRH C10-C14                     | mg/kg | 20  | <20                       | <20                       | <20                       | <20                       | <20                       |
| TRH C15-C28                     | mg/kg | 45  | <45                       | <45                       | <45                       | <45                       | <45                       |
| TRH C29-C36                     | mg/kg | 45  | <45                       | <45                       | <45                       | <45                       | <45                       |
| TRH C37-C40                     | mg/kg | 100 | <100                      | <100                      | <100                      | <100                      | <100                      |
| TRH >C10-C16                    | mg/kg | 25  | <25                       | <25                       | <25                       | <25                       | <25                       |
| TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25  | <25                       | <25                       | <25                       | <25                       | <25                       |
| TRH >C16-C34 (F3)               | mg/kg | 90  | <90                       | <90                       | <90                       | <90                       | <90                       |
| TRH >C34-C40 (F4)               | mg/kg | 120 | <120                      | <120                      | <120                      | <120                      | <120                      |
| TRH C10-C36 Total               | mg/kg | 110 | <110                      | <110                      | <110                      | <110                      | <110                      |
| TRH >C10-C40 Total (F bands)    | mg/kg | 210 | <210                      | <210                      | <210                      | <210                      | <210                      |

| PARAMETER                       | UOM   | LOR | BH26/0.1-0.3              | BH27/0.1-0.3              | SP1/0.1-0.3               | QC1                       | QC2                       |
|---------------------------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                                 |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                                 |       |     | 28/1/2020<br>SE202202.026 | 28/1/2020<br>SE202202.027 | 28/1/2020<br>SE202202.028 | 28/1/2020<br>SE202202.029 | 28/1/2020<br>SE202202.030 |
| TRH C10-C14                     | mg/kg | 20  | <20                       | <20                       | <20                       | <20                       | <20                       |
| TRH C15-C28                     | mg/kg | 45  | <45                       | <45                       | <45                       | <45                       | <45                       |
| TRH C29-C36                     | mg/kg | 45  | <45                       | <45                       | <45                       | <45                       | <45                       |
| TRH C37-C40                     | mg/kg | 100 | <100                      | <100                      | <100                      | <100                      | <100                      |
| TRH >C10-C16                    | mg/kg | 25  | <25                       | <25                       | <25                       | <25                       | <25                       |
| TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25  | <25                       | <25                       | <25                       | <25                       | <25                       |
| TRH >C16-C34 (F3)               | mg/kg | 90  | <90                       | <90                       | <90                       | <90                       | <90                       |
| TRH >C34-C40 (F4)               | mg/kg | 120 | <120                      | <120                      | <120                      | <120                      | <120                      |
| TRH C10-C36 Total               | mg/kg | 110 | <110                      | <110                      | <110                      | <110                      | <110                      |
| TRH >C10-C40 Total (F bands)    | mg/kg | 210 | <210                      | <210                      | <210                      | <210                      | <210                      |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420]    Tested: 29/1/2020

| PARAMETER                             | UOM         | LOR | BH9/0.1-0.3               | BH10/0.1-0.3              | BH11/0.1-0.3              | BH12/0.1-0.3              | BH13/0.1-0.3              |
|---------------------------------------|-------------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                                       |             |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                                       |             |     | 28/1/2020<br>SE202202.009 | 28/1/2020<br>SE202202.010 | 28/1/2020<br>SE202202.011 | 28/1/2020<br>SE202202.012 | 28/1/2020<br>SE202202.013 |
| Naphthalene                           | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| 2-methylnaphthalene                   | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| 1-methylnaphthalene                   | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Acenaphthylene                        | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Acenaphthene                          | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Fluorene                              | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Phenanthrene                          | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Anthracene                            | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Fluoranthene                          | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Pyrene                                | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Benzo(a)anthracene                    | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Chrysene                              | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Benzo(b&j)fluoranthene                | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Benzo(k)fluoranthene                  | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Benzo(a)pyrene                        | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Indeno(1,2,3-cd)pyrene                | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Dibenzo(ah)anthracene                 | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Benzo(ghi)perylene                    | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Carcinogenic PAHs, BaP TEQ <LOR=0     | TEQ (mg/kg) | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | <0.2                      |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR   | TEQ (mg/kg) | 0.3 | <0.3                      | <0.3                      | <0.3                      | <0.3                      | <0.3                      |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR/2 | TEQ (mg/kg) | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | <0.2                      |
| Total PAH (18)                        | mg/kg       | 0.8 | <0.8                      | <0.8                      | <0.8                      | <0.8                      | <0.8                      |
| Total PAH (NEPM/WHO 16)               | mg/kg       | 0.8 | <0.8                      | <0.8                      | <0.8                      | <0.8                      | <0.8                      |

| PARAMETER                             | UOM         | LOR | BH14/0.1-0.3              | BH15/0.1-0.3              | BH16/0.1-0.3              | BH17/0.1-0.3              | BH18/0.1-0.3              |
|---------------------------------------|-------------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                                       |             |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                                       |             |     | 28/1/2020<br>SE202202.014 | 28/1/2020<br>SE202202.015 | 28/1/2020<br>SE202202.016 | 28/1/2020<br>SE202202.017 | 28/1/2020<br>SE202202.018 |
| Naphthalene                           | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| 2-methylnaphthalene                   | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| 1-methylnaphthalene                   | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Acenaphthylene                        | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Acenaphthene                          | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Fluorene                              | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Phenanthrene                          | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Anthracene                            | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Fluoranthene                          | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Pyrene                                | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Benzo(a)anthracene                    | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Chrysene                              | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Benzo(b&j)fluoranthene                | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Benzo(k)fluoranthene                  | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Benzo(a)pyrene                        | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Indeno(1,2,3-cd)pyrene                | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Dibenzo(ah)anthracene                 | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Benzo(ghi)perylene                    | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Carcinogenic PAHs, BaP TEQ <LOR=0     | TEQ (mg/kg) | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | <0.2                      |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR   | TEQ (mg/kg) | 0.3 | <0.3                      | <0.3                      | <0.3                      | <0.3                      | <0.3                      |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR/2 | TEQ (mg/kg) | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | <0.2                      |
| Total PAH (18)                        | mg/kg       | 0.8 | <0.8                      | <0.8                      | <0.8                      | <0.8                      | <0.8                      |
| Total PAH (NEPM/WHO 16)               | mg/kg       | 0.8 | <0.8                      | <0.8                      | <0.8                      | <0.8                      | <0.8                      |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420]    Tested: 29/1/2020    (continued)

| PARAMETER                             | UOM         | LOR | BH19/0.1-0.3              | BH20/0.1-0.3              | BH21/0.1-0.3              | BH22/0.1-0.3              | BH23/0.1-0.3              |
|---------------------------------------|-------------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                                       |             |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                                       |             |     | 28/1/2020<br>SE202202.019 | 28/1/2020<br>SE202202.020 | 28/1/2020<br>SE202202.021 | 28/1/2020<br>SE202202.022 | 28/1/2020<br>SE202202.023 |
| Naphthalene                           | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| 2-methylnaphthalene                   | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| 1-methylnaphthalene                   | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Acenaphthylene                        | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Acenaphthene                          | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Fluorene                              | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Phenanthrene                          | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Anthracene                            | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Fluoranthene                          | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Pyrene                                | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Benzo(a)anthracene                    | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Chrysene                              | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Benzo(b&j)fluoranthene                | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Benzo(k)fluoranthene                  | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Benzo(a)pyrene                        | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Indeno(1,2,3-cd)pyrene                | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Dibenzo(ah)anthracene                 | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Benzo(ghi)perylene                    | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Carcinogenic PAHs, BaP TEQ <LOR=0     | TEQ (mg/kg) | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | <0.2                      |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR   | TEQ (mg/kg) | 0.3 | <0.3                      | <0.3                      | <0.3                      | <0.3                      | <0.3                      |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR/2 | TEQ (mg/kg) | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | <0.2                      |
| Total PAH (18)                        | mg/kg       | 0.8 | <0.8                      | <0.8                      | <0.8                      | <0.8                      | <0.8                      |
| Total PAH (NEPM/WHO 16)               | mg/kg       | 0.8 | <0.8                      | <0.8                      | <0.8                      | <0.8                      | <0.8                      |

| PARAMETER                             | UOM         | LOR | BH24/0.1-0.3              | BH25/0.1-0.3              | BH26/0.1-0.3              | BH27/0.1-0.3              | SP1/0.1-0.3               |
|---------------------------------------|-------------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                                       |             |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                                       |             |     | 28/1/2020<br>SE202202.024 | 28/1/2020<br>SE202202.025 | 28/1/2020<br>SE202202.026 | 28/1/2020<br>SE202202.027 | 28/1/2020<br>SE202202.028 |
| Naphthalene                           | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| 2-methylnaphthalene                   | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| 1-methylnaphthalene                   | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Acenaphthylene                        | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Acenaphthene                          | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Fluorene                              | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Phenanthrene                          | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Anthracene                            | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Fluoranthene                          | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Pyrene                                | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Benzo(a)anthracene                    | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Chrysene                              | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Benzo(b&j)fluoranthene                | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Benzo(k)fluoranthene                  | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Benzo(a)pyrene                        | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Indeno(1,2,3-cd)pyrene                | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Dibenzo(ah)anthracene                 | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Benzo(ghi)perylene                    | mg/kg       | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | <0.1                      |
| Carcinogenic PAHs, BaP TEQ <LOR=0     | TEQ (mg/kg) | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | <0.2                      |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR   | TEQ (mg/kg) | 0.3 | <0.3                      | <0.3                      | <0.3                      | <0.3                      | <0.3                      |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR/2 | TEQ (mg/kg) | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | <0.2                      |
| Total PAH (18)                        | mg/kg       | 0.8 | <0.8                      | <0.8                      | <0.8                      | <0.8                      | <0.8                      |
| Total PAH (NEPM/WHO 16)               | mg/kg       | 0.8 | <0.8                      | <0.8                      | <0.8                      | <0.8                      | <0.8                      |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 29/1/2020 (continued)

| PARAMETER                             | UOM         | LOR | QC1                                    | QC2                                    |
|---------------------------------------|-------------|-----|----------------------------------------|----------------------------------------|
|                                       |             |     | SOIL<br>-<br>28/1/2020<br>SE202202.029 | SOIL<br>-<br>28/1/2020<br>SE202202.030 |
| Naphthalene                           | mg/kg       | 0.1 | <0.1                                   | <0.1                                   |
| 2-methylnaphthalene                   | mg/kg       | 0.1 | <0.1                                   | <0.1                                   |
| 1-methylnaphthalene                   | mg/kg       | 0.1 | <0.1                                   | <0.1                                   |
| Acenaphthylene                        | mg/kg       | 0.1 | <0.1                                   | <0.1                                   |
| Acenaphthene                          | mg/kg       | 0.1 | <0.1                                   | <0.1                                   |
| Fluorene                              | mg/kg       | 0.1 | <0.1                                   | <0.1                                   |
| Phenanthrene                          | mg/kg       | 0.1 | <0.1                                   | <0.1                                   |
| Anthracene                            | mg/kg       | 0.1 | <0.1                                   | <0.1                                   |
| Fluoranthene                          | mg/kg       | 0.1 | <0.1                                   | <0.1                                   |
| Pyrene                                | mg/kg       | 0.1 | <0.1                                   | <0.1                                   |
| Benzo(a)anthracene                    | mg/kg       | 0.1 | <0.1                                   | <0.1                                   |
| Chrysene                              | mg/kg       | 0.1 | <0.1                                   | <0.1                                   |
| Benzo(b&j)fluoranthene                | mg/kg       | 0.1 | <0.1                                   | <0.1                                   |
| Benzo(k)fluoranthene                  | mg/kg       | 0.1 | <0.1                                   | <0.1                                   |
| Benzo(a)pyrene                        | mg/kg       | 0.1 | <0.1                                   | <0.1                                   |
| Indeno(1,2,3-cd)pyrene                | mg/kg       | 0.1 | <0.1                                   | <0.1                                   |
| Dibenzo(ah)anthracene                 | mg/kg       | 0.1 | <0.1                                   | <0.1                                   |
| Benzo(ghi)perylene                    | mg/kg       | 0.1 | <0.1                                   | <0.1                                   |
| Carcinogenic PAHs, BaP TEQ <LOR=0     | TEQ (mg/kg) | 0.2 | <0.2                                   | <0.2                                   |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR   | TEQ (mg/kg) | 0.3 | <0.3                                   | <0.3                                   |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR/2 | TEQ (mg/kg) | 0.2 | <0.2                                   | <0.2                                   |
| Total PAH (18)                        | mg/kg       | 0.8 | <0.8                                   | <0.8                                   |
| Total PAH (NEPM/WHO 16)               | mg/kg       | 0.8 | <0.8                                   | <0.8                                   |

OC Pesticides in Soil [AN420]    Tested: 29/1/2020

| PARAMETER               | UOM   | LOR | BH1/0.1-0.3               | BH2/0.1-0.3               | BH3/0.1-0.3               | BH4/0.1-0.3               | BH5/0.1-0.3               |
|-------------------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                         |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                         |       |     | 28/1/2020<br>SE202202.001 | 28/1/2020<br>SE202202.002 | 28/1/2020<br>SE202202.003 | 28/1/2020<br>SE202202.004 | 28/1/2020<br>SE202202.005 |
| Hexachlorobenzene (HCB) | mg/kg | 0.1 | -                         | -                         | -                         | -                         | -                         |
| Alpha BHC               | mg/kg | 0.1 | -                         | -                         | -                         | -                         | -                         |
| Lindane                 | mg/kg | 0.1 | -                         | -                         | -                         | -                         | -                         |
| Heptachlor              | mg/kg | 0.1 | -                         | -                         | -                         | -                         | -                         |
| Aldrin                  | mg/kg | 0.1 | -                         | -                         | -                         | -                         | -                         |
| Beta BHC                | mg/kg | 0.1 | -                         | -                         | -                         | -                         | -                         |
| Delta BHC               | mg/kg | 0.1 | -                         | -                         | -                         | -                         | -                         |
| Heptachlor epoxide      | mg/kg | 0.1 | -                         | -                         | -                         | -                         | -                         |
| o,p'-DDE                | mg/kg | 0.1 | -                         | -                         | -                         | -                         | -                         |
| Alpha Endosulfan        | mg/kg | 0.2 | -                         | -                         | -                         | -                         | -                         |
| Gamma Chlordane         | mg/kg | 0.1 | -                         | -                         | -                         | -                         | -                         |
| Alpha Chlordane         | mg/kg | 0.1 | -                         | -                         | -                         | -                         | -                         |
| trans-Nonachlor         | mg/kg | 0.1 | -                         | -                         | -                         | -                         | -                         |
| p,p'-DDE                | mg/kg | 0.1 | -                         | -                         | -                         | -                         | -                         |
| Dieldrin                | mg/kg | 0.2 | -                         | -                         | -                         | -                         | -                         |
| Endrin                  | mg/kg | 0.2 | -                         | -                         | -                         | -                         | -                         |
| o,p'-DDD                | mg/kg | 0.1 | -                         | -                         | -                         | -                         | -                         |
| o,p'-DDT                | mg/kg | 0.1 | -                         | -                         | -                         | -                         | -                         |
| Beta Endosulfan         | mg/kg | 0.2 | -                         | -                         | -                         | -                         | -                         |
| p,p'-DDD                | mg/kg | 0.1 | -                         | -                         | -                         | -                         | -                         |
| p,p'-DDT                | mg/kg | 0.1 | -                         | -                         | -                         | -                         | -                         |
| Endosulfan sulphate     | mg/kg | 0.1 | -                         | -                         | -                         | -                         | -                         |
| Endrin Aldehyde         | mg/kg | 0.1 | -                         | -                         | -                         | -                         | -                         |
| Methoxychlor            | mg/kg | 0.1 | -                         | -                         | -                         | -                         | -                         |
| Endrin Ketone           | mg/kg | 0.1 | -                         | -                         | -                         | -                         | -                         |
| Isodrin                 | mg/kg | 0.1 | -                         | -                         | -                         | -                         | -                         |
| Mirex                   | mg/kg | 0.1 | -                         | -                         | -                         | -                         | -                         |
| Total CLP OC Pesticides | mg/kg | 1   | -                         | -                         | -                         | -                         | -                         |

OC Pesticides in Soil [AN420]    Tested: 29/1/2020    (continued)

| PARAMETER               | UOM   | LOR | BH6/0.1-0.3               | BH7/0.1-0.3               | BH8/0.1-0.3               | BH9/0.1-0.3               | BH10/0.1-0.3              |
|-------------------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                         |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                         |       |     | 28/1/2020<br>SE202202.006 | 28/1/2020<br>SE202202.007 | 28/1/2020<br>SE202202.008 | 28/1/2020<br>SE202202.009 | 28/1/2020<br>SE202202.010 |
| Hexachlorobenzene (HCB) | mg/kg | 0.1 | -                         | -                         | -                         | <0.1                      | <0.1                      |
| Alpha BHC               | mg/kg | 0.1 | -                         | -                         | -                         | <0.1                      | <0.1                      |
| Lindane                 | mg/kg | 0.1 | -                         | -                         | -                         | <0.1                      | <0.1                      |
| Heptachlor              | mg/kg | 0.1 | -                         | -                         | -                         | <0.1                      | <0.1                      |
| Aldrin                  | mg/kg | 0.1 | -                         | -                         | -                         | <0.1                      | <0.1                      |
| Beta BHC                | mg/kg | 0.1 | -                         | -                         | -                         | <0.1                      | <0.1                      |
| Delta BHC               | mg/kg | 0.1 | -                         | -                         | -                         | <0.1                      | <0.1                      |
| Heptachlor epoxide      | mg/kg | 0.1 | -                         | -                         | -                         | <0.1                      | <0.1                      |
| o,p'-DDE                | mg/kg | 0.1 | -                         | -                         | -                         | <0.1                      | <0.1                      |
| Alpha Endosulfan        | mg/kg | 0.2 | -                         | -                         | -                         | <0.2                      | <0.2                      |
| Gamma Chlordane         | mg/kg | 0.1 | -                         | -                         | -                         | <0.1                      | <0.1                      |
| Alpha Chlordane         | mg/kg | 0.1 | -                         | -                         | -                         | <0.1                      | <0.1                      |
| trans-Nonachlor         | mg/kg | 0.1 | -                         | -                         | -                         | <0.1                      | <0.1                      |
| p,p'-DDE                | mg/kg | 0.1 | -                         | -                         | -                         | <0.1                      | <0.1                      |
| Dieldrin                | mg/kg | 0.2 | -                         | -                         | -                         | <0.2                      | <0.2                      |
| Endrin                  | mg/kg | 0.2 | -                         | -                         | -                         | <0.2                      | <0.2                      |
| o,p'-DDD                | mg/kg | 0.1 | -                         | -                         | -                         | <0.1                      | <0.1                      |
| o,p'-DDT                | mg/kg | 0.1 | -                         | -                         | -                         | <0.1                      | <0.1                      |
| Beta Endosulfan         | mg/kg | 0.2 | -                         | -                         | -                         | <0.2                      | <0.2                      |
| p,p'-DDD                | mg/kg | 0.1 | -                         | -                         | -                         | <0.1                      | <0.1                      |
| p,p'-DDT                | mg/kg | 0.1 | -                         | -                         | -                         | <0.1                      | <0.1                      |
| Endosulfan sulphate     | mg/kg | 0.1 | -                         | -                         | -                         | <0.1                      | <0.1                      |
| Endrin Aldehyde         | mg/kg | 0.1 | -                         | -                         | -                         | <0.1                      | <0.1                      |
| Methoxychlor            | mg/kg | 0.1 | -                         | -                         | -                         | <0.1                      | <0.1                      |
| Endrin Ketone           | mg/kg | 0.1 | -                         | -                         | -                         | <0.1                      | <0.1                      |
| Isodrin                 | mg/kg | 0.1 | -                         | -                         | -                         | <0.1                      | <0.1                      |
| Mirex                   | mg/kg | 0.1 | -                         | -                         | -                         | <0.1                      | <0.1                      |
| Total CLP OC Pesticides | mg/kg | 1   | -                         | -                         | -                         | <1                        | <1                        |

OC Pesticides in Soil [AN420]    Tested: 29/1/2020    (continued)

| PARAMETER               | UOM   | LOR | BH11/0.1-0.3              | BH12/0.1-0.3              | BH13/0.1-0.3              | BH14/0.1-0.3              | BH15/0.1-0.3              |
|-------------------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                         |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                         |       |     | 28/1/2020<br>SE202202.011 | 28/1/2020<br>SE202202.012 | 28/1/2020<br>SE202202.013 | 28/1/2020<br>SE202202.014 | 28/1/2020<br>SE202202.015 |
| Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | -                         |
| Alpha BHC               | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | -                         |
| Lindane                 | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | -                         |
| Heptachlor              | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | -                         |
| Aldrin                  | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | -                         |
| Beta BHC                | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | -                         |
| Delta BHC               | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | -                         |
| Heptachlor epoxide      | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | -                         |
| o,p'-DDE                | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | -                         |
| Alpha Endosulfan        | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | -                         |
| Gamma Chlordane         | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | -                         |
| Alpha Chlordane         | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | -                         |
| trans-Nonachlor         | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | -                         |
| p,p'-DDE                | mg/kg | 0.1 | <0.1                      | <0.1                      | <b>0.4</b>                | <0.1                      | -                         |
| Dieldrin                | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | -                         |
| Endrin                  | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | -                         |
| o,p'-DDD                | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | -                         |
| o,p'-DDT                | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | -                         |
| Beta Endosulfan         | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | -                         |
| p,p'-DDD                | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | -                         |
| p,p'-DDT                | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | -                         |
| Endosulfan sulphate     | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | -                         |
| Endrin Aldehyde         | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | -                         |
| Methoxychlor            | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | -                         |
| Endrin Ketone           | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | -                         |
| Isodrin                 | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | -                         |
| Mirex                   | mg/kg | 0.1 | <0.1                      | <0.1                      | <0.1                      | <0.1                      | -                         |
| Total CLP OC Pesticides | mg/kg | 1   | <1                        | <1                        | <1                        | <1                        | -                         |

OC Pesticides in Soil [AN420]    Tested: 29/1/2020    (continued)

| PARAMETER               | UOM   | LOR | BH16/0.1-0.3              | BH17/0.1-0.3              | BH18/0.1-0.3              | BH19/0.1-0.3              | BH20/0.1-0.3              |
|-------------------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                         |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                         |       |     | 28/1/2020<br>SE202202.016 | 28/1/2020<br>SE202202.017 | 28/1/2020<br>SE202202.018 | 28/1/2020<br>SE202202.019 | 28/1/2020<br>SE202202.020 |
| Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1                      | <0.1                      | -                         | -                         | -                         |
| Alpha BHC               | mg/kg | 0.1 | <0.1                      | <0.1                      | -                         | -                         | -                         |
| Lindane                 | mg/kg | 0.1 | <0.1                      | <0.1                      | -                         | -                         | -                         |
| Heptachlor              | mg/kg | 0.1 | <0.1                      | <0.1                      | -                         | -                         | -                         |
| Aldrin                  | mg/kg | 0.1 | <0.1                      | <0.1                      | -                         | -                         | -                         |
| Beta BHC                | mg/kg | 0.1 | <0.1                      | <0.1                      | -                         | -                         | -                         |
| Delta BHC               | mg/kg | 0.1 | <0.1                      | <0.1                      | -                         | -                         | -                         |
| Heptachlor epoxide      | mg/kg | 0.1 | <0.1                      | <0.1                      | -                         | -                         | -                         |
| o,p'-DDE                | mg/kg | 0.1 | <0.1                      | <0.1                      | -                         | -                         | -                         |
| Alpha Endosulfan        | mg/kg | 0.2 | <0.2                      | <0.2                      | -                         | -                         | -                         |
| Gamma Chlordane         | mg/kg | 0.1 | <0.1                      | <0.1                      | -                         | -                         | -                         |
| Alpha Chlordane         | mg/kg | 0.1 | <0.1                      | <0.1                      | -                         | -                         | -                         |
| trans-Nonachlor         | mg/kg | 0.1 | <0.1                      | <0.1                      | -                         | -                         | -                         |
| p,p'-DDE                | mg/kg | 0.1 | <0.1                      | <0.1                      | -                         | -                         | -                         |
| Dieldrin                | mg/kg | 0.2 | <0.2                      | <0.2                      | -                         | -                         | -                         |
| Endrin                  | mg/kg | 0.2 | <0.2                      | <0.2                      | -                         | -                         | -                         |
| o,p'-DDD                | mg/kg | 0.1 | <0.1                      | <0.1                      | -                         | -                         | -                         |
| o,p'-DDT                | mg/kg | 0.1 | <0.1                      | <0.1                      | -                         | -                         | -                         |
| Beta Endosulfan         | mg/kg | 0.2 | <0.2                      | <0.2                      | -                         | -                         | -                         |
| p,p'-DDD                | mg/kg | 0.1 | <0.1                      | <0.1                      | -                         | -                         | -                         |
| p,p'-DDT                | mg/kg | 0.1 | <0.1                      | <0.1                      | -                         | -                         | -                         |
| Endosulfan sulphate     | mg/kg | 0.1 | <0.1                      | <0.1                      | -                         | -                         | -                         |
| Endrin Aldehyde         | mg/kg | 0.1 | <0.1                      | <0.1                      | -                         | -                         | -                         |
| Methoxychlor            | mg/kg | 0.1 | <0.1                      | <0.1                      | -                         | -                         | -                         |
| Endrin Ketone           | mg/kg | 0.1 | <0.1                      | <0.1                      | -                         | -                         | -                         |
| Isodrin                 | mg/kg | 0.1 | <0.1                      | <0.1                      | -                         | -                         | -                         |
| Mirex                   | mg/kg | 0.1 | <0.1                      | <0.1                      | -                         | -                         | -                         |
| Total CLP OC Pesticides | mg/kg | 1   | <1                        | <1                        | -                         | -                         | -                         |

OC Pesticides in Soil [AN420]    Tested: 29/1/2020    (continued)

| PARAMETER               | UOM   | LOR | BH21/0.1-0.3              | BH22/0.1-0.3              | BH23/0.1-0.3              | BH24/0.1-0.3              | BH25/0.1-0.3              |
|-------------------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                         |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                         |       |     | 28/1/2020<br>SE202202.021 | 28/1/2020<br>SE202202.022 | 28/1/2020<br>SE202202.023 | 28/1/2020<br>SE202202.024 | 28/1/2020<br>SE202202.025 |
| Hexachlorobenzene (HCB) | mg/kg | 0.1 | -                         | <0.1                      | <0.1                      | <0.1                      | -                         |
| Alpha BHC               | mg/kg | 0.1 | -                         | <0.1                      | <0.1                      | <0.1                      | -                         |
| Lindane                 | mg/kg | 0.1 | -                         | <0.1                      | <0.1                      | <0.1                      | -                         |
| Heptachlor              | mg/kg | 0.1 | -                         | <0.1                      | <0.1                      | <0.1                      | -                         |
| Aldrin                  | mg/kg | 0.1 | -                         | <0.1                      | <0.1                      | <0.1                      | -                         |
| Beta BHC                | mg/kg | 0.1 | -                         | <0.1                      | <0.1                      | <0.1                      | -                         |
| Delta BHC               | mg/kg | 0.1 | -                         | <0.1                      | <0.1                      | <0.1                      | -                         |
| Heptachlor epoxide      | mg/kg | 0.1 | -                         | <0.1                      | <0.1                      | <0.1                      | -                         |
| o,p'-DDE                | mg/kg | 0.1 | -                         | <0.1                      | <0.1                      | <0.1                      | -                         |
| Alpha Endosulfan        | mg/kg | 0.2 | -                         | <0.2                      | <0.2                      | <0.2                      | -                         |
| Gamma Chlordane         | mg/kg | 0.1 | -                         | <0.1                      | <0.1                      | <0.1                      | -                         |
| Alpha Chlordane         | mg/kg | 0.1 | -                         | <0.1                      | <0.1                      | <0.1                      | -                         |
| trans-Nonachlor         | mg/kg | 0.1 | -                         | <0.1                      | <0.1                      | <0.1                      | -                         |
| p,p'-DDE                | mg/kg | 0.1 | -                         | <0.1                      | <0.1                      | <0.1                      | -                         |
| Dieldrin                | mg/kg | 0.2 | -                         | <0.2                      | <0.2                      | <0.2                      | -                         |
| Endrin                  | mg/kg | 0.2 | -                         | <0.2                      | <0.2                      | <0.2                      | -                         |
| o,p'-DDD                | mg/kg | 0.1 | -                         | <0.1                      | <0.1                      | <0.1                      | -                         |
| o,p'-DDT                | mg/kg | 0.1 | -                         | <0.1                      | <0.1                      | <0.1                      | -                         |
| Beta Endosulfan         | mg/kg | 0.2 | -                         | <0.2                      | <0.2                      | <0.2                      | -                         |
| p,p'-DDD                | mg/kg | 0.1 | -                         | <0.1                      | <0.1                      | <0.1                      | -                         |
| p,p'-DDT                | mg/kg | 0.1 | -                         | <0.1                      | <0.1                      | <0.1                      | -                         |
| Endosulfan sulphate     | mg/kg | 0.1 | -                         | <0.1                      | <0.1                      | <0.1                      | -                         |
| Endrin Aldehyde         | mg/kg | 0.1 | -                         | <0.1                      | <0.1                      | <0.1                      | -                         |
| Methoxychlor            | mg/kg | 0.1 | -                         | <0.1                      | <0.1                      | <0.1                      | -                         |
| Endrin Ketone           | mg/kg | 0.1 | -                         | <0.1                      | <0.1                      | <0.1                      | -                         |
| Isodrin                 | mg/kg | 0.1 | -                         | <0.1                      | <0.1                      | <0.1                      | -                         |
| Mirex                   | mg/kg | 0.1 | -                         | <0.1                      | <0.1                      | <0.1                      | -                         |
| Total CLP OC Pesticides | mg/kg | 1   | -                         | <1                        | <1                        | <1                        | -                         |

OC Pesticides in Soil [AN420]    Tested: 29/1/2020    (continued)

| PARAMETER               | UOM   | LOR | BH26/0.1-0.3              | BH27/0.1-0.3              | SP1/0.1-0.3               | QC1                       | QC2                       |
|-------------------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                         |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                         |       |     | 28/1/2020<br>SE202202.026 | 28/1/2020<br>SE202202.027 | 28/1/2020<br>SE202202.028 | 28/1/2020<br>SE202202.029 | 28/1/2020<br>SE202202.030 |
| Hexachlorobenzene (HCB) | mg/kg | 0.1 | -                         | -                         | <0.1                      | <0.1                      | -                         |
| Alpha BHC               | mg/kg | 0.1 | -                         | -                         | <0.1                      | <0.1                      | -                         |
| Lindane                 | mg/kg | 0.1 | -                         | -                         | <0.1                      | <0.1                      | -                         |
| Heptachlor              | mg/kg | 0.1 | -                         | -                         | <0.1                      | <0.1                      | -                         |
| Aldrin                  | mg/kg | 0.1 | -                         | -                         | <0.1                      | <0.1                      | -                         |
| Beta BHC                | mg/kg | 0.1 | -                         | -                         | <0.1                      | <0.1                      | -                         |
| Delta BHC               | mg/kg | 0.1 | -                         | -                         | <0.1                      | <0.1                      | -                         |
| Heptachlor epoxide      | mg/kg | 0.1 | -                         | -                         | <0.1                      | <0.1                      | -                         |
| o,p'-DDE                | mg/kg | 0.1 | -                         | -                         | <0.1                      | <0.1                      | -                         |
| Alpha Endosulfan        | mg/kg | 0.2 | -                         | -                         | <0.2                      | <0.2                      | -                         |
| Gamma Chlordane         | mg/kg | 0.1 | -                         | -                         | <0.1                      | <0.1                      | -                         |
| Alpha Chlordane         | mg/kg | 0.1 | -                         | -                         | <0.1                      | <0.1                      | -                         |
| trans-Nonachlor         | mg/kg | 0.1 | -                         | -                         | <0.1                      | <0.1                      | -                         |
| p,p'-DDE                | mg/kg | 0.1 | -                         | -                         | <0.1                      | <0.1                      | -                         |
| Dieldrin                | mg/kg | 0.2 | -                         | -                         | <0.2                      | <0.2                      | -                         |
| Endrin                  | mg/kg | 0.2 | -                         | -                         | <0.2                      | <0.2                      | -                         |
| o,p'-DDD                | mg/kg | 0.1 | -                         | -                         | <0.1                      | <0.1                      | -                         |
| o,p'-DDT                | mg/kg | 0.1 | -                         | -                         | <0.1                      | <0.1                      | -                         |
| Beta Endosulfan         | mg/kg | 0.2 | -                         | -                         | <0.2                      | <0.2                      | -                         |
| p,p'-DDD                | mg/kg | 0.1 | -                         | -                         | <0.1                      | <0.1                      | -                         |
| p,p'-DDT                | mg/kg | 0.1 | -                         | -                         | <0.1                      | <0.1                      | -                         |
| Endosulfan sulphate     | mg/kg | 0.1 | -                         | -                         | <0.1                      | <0.1                      | -                         |
| Endrin Aldehyde         | mg/kg | 0.1 | -                         | -                         | <0.1                      | <0.1                      | -                         |
| Methoxychlor            | mg/kg | 0.1 | -                         | -                         | <0.1                      | <0.1                      | -                         |
| Endrin Ketone           | mg/kg | 0.1 | -                         | -                         | <0.1                      | <0.1                      | -                         |
| Isodrin                 | mg/kg | 0.1 | -                         | -                         | <0.1                      | <0.1                      | -                         |
| Mirex                   | mg/kg | 0.1 | -                         | -                         | <0.1                      | <0.1                      | -                         |
| Total CLP OC Pesticides | mg/kg | 1   | -                         | -                         | <1                        | <1                        | -                         |

OP Pesticides in Soil [AN420]    Tested: 29/1/2020

| PARAMETER                         | UOM   | LOR | BH9/0.1-0.3               | BH10/0.1-0.3              | BH11/0.1-0.3              | BH12/0.1-0.3              | BH13/0.1-0.3              |
|-----------------------------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                                   |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                                   |       |     | 28/1/2020<br>SE202202.009 | 28/1/2020<br>SE202202.010 | 28/1/2020<br>SE202202.011 | 28/1/2020<br>SE202202.012 | 28/1/2020<br>SE202202.013 |
| Dichlorvos                        | mg/kg | 0.5 | <0.5                      | <0.5                      | <0.5                      | <0.5                      | <0.5                      |
| Dimethoate                        | mg/kg | 0.5 | <0.5                      | <0.5                      | <0.5                      | <0.5                      | <0.5                      |
| Diazinon (Dimpylate)              | mg/kg | 0.5 | <0.5                      | <0.5                      | <0.5                      | <0.5                      | <0.5                      |
| Fenitrothion                      | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | <0.2                      |
| Malathion                         | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | <0.2                      |
| Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | <0.2                      |
| Parathion-ethyl (Parathion)       | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | <0.2                      |
| Bromophos Ethyl                   | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | <0.2                      |
| Methidathion                      | mg/kg | 0.5 | <0.5                      | <0.5                      | <0.5                      | <0.5                      | <0.5                      |
| Ethion                            | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | <0.2                      |
| Azinphos-methyl (Guthion)         | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | <0.2                      |
| Total OP Pesticides*              | mg/kg | 1.7 | <1.7                      | <1.7                      | <1.7                      | <1.7                      | <1.7                      |

| PARAMETER                         | UOM   | LOR | BH14/0.1-0.3              | BH16/0.1-0.3              | BH17/0.1-0.3              | BH22/0.1-0.3              | BH23/0.1-0.3              |
|-----------------------------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                                   |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                                   |       |     | 28/1/2020<br>SE202202.014 | 28/1/2020<br>SE202202.016 | 28/1/2020<br>SE202202.017 | 28/1/2020<br>SE202202.022 | 28/1/2020<br>SE202202.023 |
| Dichlorvos                        | mg/kg | 0.5 | <0.5                      | <0.5                      | <0.5                      | <0.5                      | <0.5                      |
| Dimethoate                        | mg/kg | 0.5 | <0.5                      | <0.5                      | <0.5                      | <0.5                      | <0.5                      |
| Diazinon (Dimpylate)              | mg/kg | 0.5 | <0.5                      | <0.5                      | <0.5                      | <0.5                      | <0.5                      |
| Fenitrothion                      | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | <0.2                      |
| Malathion                         | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | <0.2                      |
| Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | <0.2                      |
| Parathion-ethyl (Parathion)       | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | <0.2                      |
| Bromophos Ethyl                   | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | <0.2                      |
| Methidathion                      | mg/kg | 0.5 | <0.5                      | <0.5                      | <0.5                      | <0.5                      | <0.5                      |
| Ethion                            | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | <0.2                      |
| Azinphos-methyl (Guthion)         | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | <0.2                      |
| Total OP Pesticides*              | mg/kg | 1.7 | <1.7                      | <1.7                      | <1.7                      | <1.7                      | <1.7                      |

| PARAMETER                         | UOM   | LOR | BH24/0.1-0.3              | SP1/0.1-0.3               | QC1                       |
|-----------------------------------|-------|-----|---------------------------|---------------------------|---------------------------|
|                                   |       |     | SOIL                      | SOIL                      | SOIL                      |
|                                   |       |     | 28/1/2020<br>SE202202.024 | 28/1/2020<br>SE202202.028 | 28/1/2020<br>SE202202.029 |
| Dichlorvos                        | mg/kg | 0.5 | <0.5                      | <0.5                      | <0.5                      |
| Dimethoate                        | mg/kg | 0.5 | <0.5                      | <0.5                      | <0.5                      |
| Diazinon (Dimpylate)              | mg/kg | 0.5 | <0.5                      | <0.5                      | <0.5                      |
| Fenitrothion                      | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      |
| Malathion                         | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      |
| Chlorpyrifos (Chlorpyrifos Ethyl) | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      |
| Parathion-ethyl (Parathion)       | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      |
| Bromophos Ethyl                   | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      |
| Methidathion                      | mg/kg | 0.5 | <0.5                      | <0.5                      | <0.5                      |
| Ethion                            | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      |
| Azinphos-methyl (Guthion)         | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      |
| Total OP Pesticides*              | mg/kg | 1.7 | <1.7                      | <1.7                      | <1.7                      |

PCBs in Soil [AN420] Tested: 29/1/2020

| PARAMETER              | UOM   | LOR | BH1/0.1-0.3               | BH2/0.1-0.3               | BH3/0.1-0.3               | BH4/0.1-0.3               | BH5/0.1-0.3               |
|------------------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                        |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                        |       |     | 28/1/2020<br>SE202202.001 | 28/1/2020<br>SE202202.002 | 28/1/2020<br>SE202202.003 | 28/1/2020<br>SE202202.004 | 28/1/2020<br>SE202202.005 |
| Arochlor 1016          | mg/kg | 0.2 | -                         | -                         | -                         | -                         | -                         |
| Arochlor 1221          | mg/kg | 0.2 | -                         | -                         | -                         | -                         | -                         |
| Arochlor 1232          | mg/kg | 0.2 | -                         | -                         | -                         | -                         | -                         |
| Arochlor 1242          | mg/kg | 0.2 | -                         | -                         | -                         | -                         | -                         |
| Arochlor 1248          | mg/kg | 0.2 | -                         | -                         | -                         | -                         | -                         |
| Arochlor 1254          | mg/kg | 0.2 | -                         | -                         | -                         | -                         | -                         |
| Arochlor 1260          | mg/kg | 0.2 | -                         | -                         | -                         | -                         | -                         |
| Arochlor 1262          | mg/kg | 0.2 | -                         | -                         | -                         | -                         | -                         |
| Arochlor 1268          | mg/kg | 0.2 | -                         | -                         | -                         | -                         | -                         |
| Total PCBs (Arochlors) | mg/kg | 1   | -                         | -                         | -                         | -                         | -                         |

| PARAMETER              | UOM   | LOR | BH6/0.1-0.3               | BH7/0.1-0.3               | BH8/0.1-0.3               | BH9/0.1-0.3               | BH10/0.1-0.3              |
|------------------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                        |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                        |       |     | 28/1/2020<br>SE202202.006 | 28/1/2020<br>SE202202.007 | 28/1/2020<br>SE202202.008 | 28/1/2020<br>SE202202.009 | 28/1/2020<br>SE202202.010 |
| Arochlor 1016          | mg/kg | 0.2 | -                         | -                         | -                         | <0.2                      | <0.2                      |
| Arochlor 1221          | mg/kg | 0.2 | -                         | -                         | -                         | <0.2                      | <0.2                      |
| Arochlor 1232          | mg/kg | 0.2 | -                         | -                         | -                         | <0.2                      | <0.2                      |
| Arochlor 1242          | mg/kg | 0.2 | -                         | -                         | -                         | <0.2                      | <0.2                      |
| Arochlor 1248          | mg/kg | 0.2 | -                         | -                         | -                         | <0.2                      | <0.2                      |
| Arochlor 1254          | mg/kg | 0.2 | -                         | -                         | -                         | <0.2                      | <0.2                      |
| Arochlor 1260          | mg/kg | 0.2 | -                         | -                         | -                         | <0.2                      | <0.2                      |
| Arochlor 1262          | mg/kg | 0.2 | -                         | -                         | -                         | <0.2                      | <0.2                      |
| Arochlor 1268          | mg/kg | 0.2 | -                         | -                         | -                         | <0.2                      | <0.2                      |
| Total PCBs (Arochlors) | mg/kg | 1   | -                         | -                         | -                         | <1                        | <1                        |

| PARAMETER              | UOM   | LOR | BH11/0.1-0.3              | BH12/0.1-0.3              | BH13/0.1-0.3              | BH14/0.1-0.3              | BH15/0.1-0.3              |
|------------------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                        |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                        |       |     | 28/1/2020<br>SE202202.011 | 28/1/2020<br>SE202202.012 | 28/1/2020<br>SE202202.013 | 28/1/2020<br>SE202202.014 | 28/1/2020<br>SE202202.015 |
| Arochlor 1016          | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | -                         |
| Arochlor 1221          | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | -                         |
| Arochlor 1232          | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | -                         |
| Arochlor 1242          | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | -                         |
| Arochlor 1248          | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | -                         |
| Arochlor 1254          | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | -                         |
| Arochlor 1260          | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | -                         |
| Arochlor 1262          | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | -                         |
| Arochlor 1268          | mg/kg | 0.2 | <0.2                      | <0.2                      | <0.2                      | <0.2                      | -                         |
| Total PCBs (Arochlors) | mg/kg | 1   | <1                        | <1                        | <1                        | <1                        | -                         |

PCBs in Soil [AN420] Tested: 29/1/2020 (continued)

| PARAMETER              | UOM   | LOR | BH16/0.1-0.3              | BH17/0.1-0.3              | BH18/0.1-0.3              | BH19/0.1-0.3              | BH20/0.1-0.3              |
|------------------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                        |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                        |       |     | 28/1/2020<br>SE202202.016 | 28/1/2020<br>SE202202.017 | 28/1/2020<br>SE202202.018 | 28/1/2020<br>SE202202.019 | 28/1/2020<br>SE202202.020 |
| Arochlor 1016          | mg/kg | 0.2 | <0.2                      | <0.2                      | -                         | -                         | -                         |
| Arochlor 1221          | mg/kg | 0.2 | <0.2                      | <0.2                      | -                         | -                         | -                         |
| Arochlor 1232          | mg/kg | 0.2 | <0.2                      | <0.2                      | -                         | -                         | -                         |
| Arochlor 1242          | mg/kg | 0.2 | <0.2                      | <0.2                      | -                         | -                         | -                         |
| Arochlor 1248          | mg/kg | 0.2 | <0.2                      | <0.2                      | -                         | -                         | -                         |
| Arochlor 1254          | mg/kg | 0.2 | <0.2                      | <0.2                      | -                         | -                         | -                         |
| Arochlor 1260          | mg/kg | 0.2 | <0.2                      | <0.2                      | -                         | -                         | -                         |
| Arochlor 1262          | mg/kg | 0.2 | <0.2                      | <0.2                      | -                         | -                         | -                         |
| Arochlor 1268          | mg/kg | 0.2 | <0.2                      | <0.2                      | -                         | -                         | -                         |
| Total PCBs (Arochlors) | mg/kg | 1   | <1                        | <1                        | -                         | -                         | -                         |

| PARAMETER              | UOM   | LOR | BH21/0.1-0.3              | BH22/0.1-0.3              | BH23/0.1-0.3              | BH24/0.1-0.3              | BH25/0.1-0.3              |
|------------------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                        |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                        |       |     | 28/1/2020<br>SE202202.021 | 28/1/2020<br>SE202202.022 | 28/1/2020<br>SE202202.023 | 28/1/2020<br>SE202202.024 | 28/1/2020<br>SE202202.025 |
| Arochlor 1016          | mg/kg | 0.2 | -                         | <0.2                      | <0.2                      | <0.2                      | -                         |
| Arochlor 1221          | mg/kg | 0.2 | -                         | <0.2                      | <0.2                      | <0.2                      | -                         |
| Arochlor 1232          | mg/kg | 0.2 | -                         | <0.2                      | <0.2                      | <0.2                      | -                         |
| Arochlor 1242          | mg/kg | 0.2 | -                         | <0.2                      | <0.2                      | <0.2                      | -                         |
| Arochlor 1248          | mg/kg | 0.2 | -                         | <0.2                      | <0.2                      | <0.2                      | -                         |
| Arochlor 1254          | mg/kg | 0.2 | -                         | <0.2                      | <0.2                      | <0.2                      | -                         |
| Arochlor 1260          | mg/kg | 0.2 | -                         | <0.2                      | <0.2                      | <0.2                      | -                         |
| Arochlor 1262          | mg/kg | 0.2 | -                         | <0.2                      | <0.2                      | <0.2                      | -                         |
| Arochlor 1268          | mg/kg | 0.2 | -                         | <0.2                      | <0.2                      | <0.2                      | -                         |
| Total PCBs (Arochlors) | mg/kg | 1   | -                         | <1                        | <1                        | <1                        | -                         |

| PARAMETER              | UOM   | LOR | BH26/0.1-0.3              | BH27/0.1-0.3              | SP1/0.1-0.3               | QC1                       | QC2                       |
|------------------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                        |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                        |       |     | 28/1/2020<br>SE202202.026 | 28/1/2020<br>SE202202.027 | 28/1/2020<br>SE202202.028 | 28/1/2020<br>SE202202.029 | 28/1/2020<br>SE202202.030 |
| Arochlor 1016          | mg/kg | 0.2 | -                         | -                         | <0.2                      | <0.2                      | -                         |
| Arochlor 1221          | mg/kg | 0.2 | -                         | -                         | <0.2                      | <0.2                      | -                         |
| Arochlor 1232          | mg/kg | 0.2 | -                         | -                         | <0.2                      | <0.2                      | -                         |
| Arochlor 1242          | mg/kg | 0.2 | -                         | -                         | <0.2                      | <0.2                      | -                         |
| Arochlor 1248          | mg/kg | 0.2 | -                         | -                         | <0.2                      | <0.2                      | -                         |
| Arochlor 1254          | mg/kg | 0.2 | -                         | -                         | <0.2                      | <0.2                      | -                         |
| Arochlor 1260          | mg/kg | 0.2 | -                         | -                         | <0.2                      | <0.2                      | -                         |
| Arochlor 1262          | mg/kg | 0.2 | -                         | -                         | <0.2                      | <0.2                      | -                         |
| Arochlor 1268          | mg/kg | 0.2 | -                         | -                         | <0.2                      | <0.2                      | -                         |
| Total PCBs (Arochlors) | mg/kg | 1   | -                         | -                         | <1                        | <1                        | -                         |

Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 30/1/2020

| PARAMETER    | UOM   | LOR | BH1/0.1-0.3               | BH2/0.1-0.3               | BH3/0.1-0.3               | BH4/0.1-0.3               | BH5/0.1-0.3               |
|--------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|              |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|              |       |     | 28/1/2020<br>SE202202.001 | 28/1/2020<br>SE202202.002 | 28/1/2020<br>SE202202.003 | 28/1/2020<br>SE202202.004 | 28/1/2020<br>SE202202.005 |
| Arsenic, As  | mg/kg | 1   | 2                         | 6                         | 7                         | 13                        | 4                         |
| Cadmium, Cd  | mg/kg | 0.3 | <0.3                      | <0.3                      | <0.3                      | <0.3                      | <0.3                      |
| Chromium, Cr | mg/kg | 0.5 | 6.8                       | 14                        | 15                        | 13                        | 8.3                       |
| Copper, Cu   | mg/kg | 0.5 | 17                        | 44                        | 18                        | 19                        | 8.0                       |
| Lead, Pb     | mg/kg | 1   | 10                        | 29                        | 15                        | 18                        | 18                        |
| Nickel, Ni   | mg/kg | 0.5 | 3.7                       | 18                        | 5.3                       | 4.1                       | 4.3                       |
| Zinc, Zn     | mg/kg | 2   | 22                        | 48                        | 41                        | 26                        | 22                        |

| PARAMETER    | UOM   | LOR | BH6/0.1-0.3               | BH7/0.1-0.3               | BH8/0.1-0.3               | BH9/0.1-0.3               | BH10/0.1-0.3              |
|--------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|              |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|              |       |     | 28/1/2020<br>SE202202.006 | 28/1/2020<br>SE202202.007 | 28/1/2020<br>SE202202.008 | 28/1/2020<br>SE202202.009 | 28/1/2020<br>SE202202.010 |
| Arsenic, As  | mg/kg | 1   | 6                         | 4                         | 7                         | 5                         | 8                         |
| Cadmium, Cd  | mg/kg | 0.3 | <0.3                      | <0.3                      | <0.3                      | <0.3                      | <0.3                      |
| Chromium, Cr | mg/kg | 0.5 | 16                        | 27                        | 15                        | 12                        | 12                        |
| Copper, Cu   | mg/kg | 0.5 | 37                        | 27                        | 15                        | 24                        | 23                        |
| Lead, Pb     | mg/kg | 1   | 42                        | 17                        | 18                        | 20                        | 13                        |
| Nickel, Ni   | mg/kg | 0.5 | 6.5                       | 44                        | 2.9                       | 3.4                       | 7.2                       |
| Zinc, Zn     | mg/kg | 2   | 57                        | 44                        | 19                        | 26                        | 44                        |

| PARAMETER    | UOM   | LOR | BH11/0.1-0.3              | BH12/0.1-0.3              | BH13/0.1-0.3              | BH14/0.1-0.3              | BH15/0.1-0.3              |
|--------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|              |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|              |       |     | 28/1/2020<br>SE202202.011 | 28/1/2020<br>SE202202.012 | 28/1/2020<br>SE202202.013 | 28/1/2020<br>SE202202.014 | 28/1/2020<br>SE202202.015 |
| Arsenic, As  | mg/kg | 1   | 14                        | 7                         | 6                         | 7                         | 5                         |
| Cadmium, Cd  | mg/kg | 0.3 | <0.3                      | <0.3                      | <0.3                      | <0.3                      | <0.3                      |
| Chromium, Cr | mg/kg | 0.5 | 15                        | 15                        | 16                        | 20                        | 9.1                       |
| Copper, Cu   | mg/kg | 0.5 | 20                        | 22                        | 24                        | 22                        | 16                        |
| Lead, Pb     | mg/kg | 1   | 35                        | 21                        | 25                        | 29                        | 15                        |
| Nickel, Ni   | mg/kg | 0.5 | 3.9                       | 7.8                       | 6.1                       | 9.4                       | 2.2                       |
| Zinc, Zn     | mg/kg | 2   | 25                        | 30                        | 37                        | 41                        | 16                        |

| PARAMETER    | UOM   | LOR | BH16/0.1-0.3              | BH17/0.1-0.3              | BH18/0.1-0.3              | BH19/0.1-0.3              | BH20/0.1-0.3              |
|--------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|              |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|              |       |     | 28/1/2020<br>SE202202.016 | 28/1/2020<br>SE202202.017 | 28/1/2020<br>SE202202.018 | 28/1/2020<br>SE202202.019 | 28/1/2020<br>SE202202.020 |
| Arsenic, As  | mg/kg | 1   | 3                         | 4                         | 4                         | 8                         | 6                         |
| Cadmium, Cd  | mg/kg | 0.3 | <0.3                      | <0.3                      | <0.3                      | <0.3                      | <0.3                      |
| Chromium, Cr | mg/kg | 0.5 | 10                        | 8.2                       | 9.2                       | 19                        | 16                        |
| Copper, Cu   | mg/kg | 0.5 | 37                        | 18                        | 19                        | 24                        | 24                        |
| Lead, Pb     | mg/kg | 1   | 23                        | 15                        | 17                        | 30                        | 25                        |
| Nickel, Ni   | mg/kg | 0.5 | 8.3                       | 4.2                       | 2.4                       | 10                        | 5.6                       |
| Zinc, Zn     | mg/kg | 2   | 55                        | 29                        | 15                        | 50                        | 31                        |

## Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 30/1/2020

| PARAMETER    | UOM   | LOR | BH21/0.1-0.3              | BH22/0.1-0.3              | BH23/0.1-0.3              | BH24/0.1-0.3              | BH25/0.1-0.3              |
|--------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|              |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|              |       |     | 28/1/2020<br>SE202202.021 | 28/1/2020<br>SE202202.022 | 28/1/2020<br>SE202202.023 | 28/1/2020<br>SE202202.024 | 28/1/2020<br>SE202202.025 |
| Arsenic, As  | mg/kg | 1   | 6                         | 3                         | 6                         | 2                         | 2                         |
| Cadmium, Cd  | mg/kg | 0.3 | <0.3                      | <0.3                      | <0.3                      | <0.3                      | <0.3                      |
| Chromium, Cr | mg/kg | 0.5 | 17                        | 5.4                       | 14                        | 11                        | 7.0                       |
| Copper, Cu   | mg/kg | 0.5 | 15                        | 17                        | 25                        | 37                        | 17                        |
| Lead, Pb     | mg/kg | 1   | 20                        | 11                        | 22                        | 15                        | 13                        |
| Nickel, Ni   | mg/kg | 0.5 | 5.3                       | 1.6                       | 5.9                       | 7.2                       | 2.1                       |
| Zinc, Zn     | mg/kg | 2   | 21                        | 12                        | 38                        | 52                        | 15                        |

| PARAMETER    | UOM   | LOR | BH26/0.1-0.3              | BH27/0.1-0.3              | SP1/0.1-0.3               | QC1                       | QC2                       |
|--------------|-------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|              |       |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|              |       |     | 28/1/2020<br>SE202202.026 | 28/1/2020<br>SE202202.027 | 28/1/2020<br>SE202202.028 | 28/1/2020<br>SE202202.029 | 28/1/2020<br>SE202202.030 |
| Arsenic, As  | mg/kg | 1   | 8                         | 7                         | 16                        | 8                         | 7                         |
| Cadmium, Cd  | mg/kg | 0.3 | <0.3                      | <0.3                      | <0.3                      | <0.3                      | <0.3                      |
| Chromium, Cr | mg/kg | 0.5 | 16                        | 12                        | 11                        | 15                        | 10                        |
| Copper, Cu   | mg/kg | 0.5 | 19                        | 19                        | 31                        | 25                        | 32                        |
| Lead, Pb     | mg/kg | 1   | 21                        | 19                        | 32                        | 23                        | 34                        |
| Nickel, Ni   | mg/kg | 0.5 | 4.2                       | 2.4                       | 9.1                       | 3.0                       | 8.2                       |
| Zinc, Zn     | mg/kg | 2   | 26                        | 26                        | 100                       | 27                        | 110                       |

Mercury in Soil [AN312] Tested: 30/1/2020

| PARAMETER | UOM   | LOR  | BH1/0.1-0.3               | BH2/0.1-0.3               | BH3/0.1-0.3               | BH4/0.1-0.3               | BH5/0.1-0.3               |
|-----------|-------|------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|           |       |      | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|           |       |      | -                         | -                         | -                         | -                         | -                         |
|           |       |      | 28/1/2020<br>SE202202.001 | 28/1/2020<br>SE202202.002 | 28/1/2020<br>SE202202.003 | 28/1/2020<br>SE202202.004 | 28/1/2020<br>SE202202.005 |
| Mercury   | mg/kg | 0.05 | <0.05                     | <0.05                     | <0.05                     | <0.05                     | <0.05                     |

| PARAMETER | UOM   | LOR  | BH6/0.1-0.3               | BH7/0.1-0.3               | BH8/0.1-0.3               | BH9/0.1-0.3               | BH10/0.1-0.3              |
|-----------|-------|------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|           |       |      | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|           |       |      | -                         | -                         | -                         | -                         | -                         |
|           |       |      | 28/1/2020<br>SE202202.006 | 28/1/2020<br>SE202202.007 | 28/1/2020<br>SE202202.008 | 28/1/2020<br>SE202202.009 | 28/1/2020<br>SE202202.010 |
| Mercury   | mg/kg | 0.05 | 0.07                      | <0.05                     | <0.05                     | <0.05                     | <0.05                     |

| PARAMETER | UOM   | LOR  | BH11/0.1-0.3              | BH12/0.1-0.3              | BH13/0.1-0.3              | BH14/0.1-0.3              | BH15/0.1-0.3              |
|-----------|-------|------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|           |       |      | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|           |       |      | -                         | -                         | -                         | -                         | -                         |
|           |       |      | 28/1/2020<br>SE202202.011 | 28/1/2020<br>SE202202.012 | 28/1/2020<br>SE202202.013 | 28/1/2020<br>SE202202.014 | 28/1/2020<br>SE202202.015 |
| Mercury   | mg/kg | 0.05 | <0.05                     | <0.05                     | <0.05                     | <0.05                     | <0.05                     |

| PARAMETER | UOM   | LOR  | BH16/0.1-0.3              | BH17/0.1-0.3              | BH18/0.1-0.3              | BH19/0.1-0.3              | BH20/0.1-0.3              |
|-----------|-------|------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|           |       |      | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|           |       |      | -                         | -                         | -                         | -                         | -                         |
|           |       |      | 28/1/2020<br>SE202202.016 | 28/1/2020<br>SE202202.017 | 28/1/2020<br>SE202202.018 | 28/1/2020<br>SE202202.019 | 28/1/2020<br>SE202202.020 |
| Mercury   | mg/kg | 0.05 | <0.05                     | <0.05                     | <0.05                     | <0.05                     | <0.05                     |

| PARAMETER | UOM   | LOR  | BH21/0.1-0.3              | BH22/0.1-0.3              | BH23/0.1-0.3              | BH24/0.1-0.3              | BH25/0.1-0.3              |
|-----------|-------|------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|           |       |      | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|           |       |      | -                         | -                         | -                         | -                         | -                         |
|           |       |      | 28/1/2020<br>SE202202.021 | 28/1/2020<br>SE202202.022 | 28/1/2020<br>SE202202.023 | 28/1/2020<br>SE202202.024 | 28/1/2020<br>SE202202.025 |
| Mercury   | mg/kg | 0.05 | <0.05                     | <0.05                     | <0.05                     | <0.05                     | <0.05                     |

| PARAMETER | UOM   | LOR  | BH26/0.1-0.3              | BH27/0.1-0.3              | SP1/0.1-0.3               | QC1                       | QC2                       |
|-----------|-------|------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|           |       |      | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|           |       |      | -                         | -                         | -                         | -                         | -                         |
|           |       |      | 28/1/2020<br>SE202202.026 | 28/1/2020<br>SE202202.027 | 28/1/2020<br>SE202202.028 | 28/1/2020<br>SE202202.029 | 28/1/2020<br>SE202202.030 |
| Mercury   | mg/kg | 0.05 | <0.05                     | <0.05                     | <0.05                     | <0.05                     | <0.05                     |

Moisture Content [AN002] Tested: 29/1/2020

| PARAMETER  | UOM  | LOR | BH1/0.1-0.3               | BH2/0.1-0.3               | BH3/0.1-0.3               | BH4/0.1-0.3               | BH5/0.1-0.3               |
|------------|------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|            |      |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|            |      |     | -                         | -                         | -                         | -                         | -                         |
|            |      |     | 28/1/2020<br>SE202202.001 | 28/1/2020<br>SE202202.002 | 28/1/2020<br>SE202202.003 | 28/1/2020<br>SE202202.004 | 28/1/2020<br>SE202202.005 |
| % Moisture | %w/w | 1   | 13.9                      | 16.7                      | 12.6                      | 11.3                      | 6.7                       |

| PARAMETER  | UOM  | LOR | BH6/0.1-0.3               | BH7/0.1-0.3               | BH8/0.1-0.3               | BH9/0.1-0.3               | BH10/0.1-0.3              |
|------------|------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|            |      |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|            |      |     | -                         | -                         | -                         | -                         | -                         |
|            |      |     | 28/1/2020<br>SE202202.006 | 28/1/2020<br>SE202202.007 | 28/1/2020<br>SE202202.008 | 28/1/2020<br>SE202202.009 | 28/1/2020<br>SE202202.010 |
| % Moisture | %w/w | 1   | 8.6                       | 9.9                       | 13.9                      | 14.4                      | 13.7                      |

| PARAMETER  | UOM  | LOR | BH11/0.1-0.3              | BH12/0.1-0.3              | BH13/0.1-0.3              | BH14/0.1-0.3              | BH15/0.1-0.3              |
|------------|------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|            |      |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|            |      |     | -                         | -                         | -                         | -                         | -                         |
|            |      |     | 28/1/2020<br>SE202202.011 | 28/1/2020<br>SE202202.012 | 28/1/2020<br>SE202202.013 | 28/1/2020<br>SE202202.014 | 28/1/2020<br>SE202202.015 |
| % Moisture | %w/w | 1   | 14.7                      | 18.1                      | 10.6                      | 11.2                      | 14.1                      |

| PARAMETER  | UOM  | LOR | BH16/0.1-0.3              | BH17/0.1-0.3              | BH18/0.1-0.3              | BH19/0.1-0.3              | BH20/0.1-0.3              |
|------------|------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|            |      |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|            |      |     | -                         | -                         | -                         | -                         | -                         |
|            |      |     | 28/1/2020<br>SE202202.016 | 28/1/2020<br>SE202202.017 | 28/1/2020<br>SE202202.018 | 28/1/2020<br>SE202202.019 | 28/1/2020<br>SE202202.020 |
| % Moisture | %w/w | 1   | 12.2                      | 11.6                      | 14.4                      | 11.9                      | 13.9                      |

| PARAMETER  | UOM  | LOR | BH21/0.1-0.3              | BH22/0.1-0.3              | BH23/0.1-0.3              | BH24/0.1-0.3              | BH25/0.1-0.3              |
|------------|------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|            |      |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|            |      |     | -                         | -                         | -                         | -                         | -                         |
|            |      |     | 28/1/2020<br>SE202202.021 | 28/1/2020<br>SE202202.022 | 28/1/2020<br>SE202202.023 | 28/1/2020<br>SE202202.024 | 28/1/2020<br>SE202202.025 |
| % Moisture | %w/w | 1   | 14.1                      | 14.7                      | 14.8                      | 14.5                      | 15.3                      |

| PARAMETER  | UOM  | LOR | BH26/0.1-0.3              | BH27/0.1-0.3              | SP1/0.1-0.3               | QC1                       | QC2                       |
|------------|------|-----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|            |      |     | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|            |      |     | -                         | -                         | -                         | -                         | -                         |
|            |      |     | 28/1/2020<br>SE202202.026 | 28/1/2020<br>SE202202.027 | 28/1/2020<br>SE202202.028 | 28/1/2020<br>SE202202.029 | 28/1/2020<br>SE202202.030 |
| % Moisture | %w/w | 1   | 14.6                      | 16.3                      | 2.2                       | 12.9                      | 3.1                       |

Fibre Identification in soil [AN602] Tested: 31/1/2020

| PARAMETER         | UOM     | LOR  | BH1/0.1-0.3               | BH2/0.1-0.3               | BH3/0.1-0.3               | BH4/0.1-0.3               | BH5/0.1-0.3               |
|-------------------|---------|------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                   |         |      | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                   |         |      | -                         | -                         | -                         | -                         | -                         |
|                   |         |      | 28/1/2020<br>SE202202.001 | 28/1/2020<br>SE202202.002 | 28/1/2020<br>SE202202.003 | 28/1/2020<br>SE202202.004 | 28/1/2020<br>SE202202.005 |
| Asbestos Detected | No unit | -    | No                        | No                        | No                        | No                        | Yes                       |
| Estimated Fibres* | %w/w    | 0.01 | <0.01                     | <0.01                     | <0.01                     | <0.01                     | >0.01                     |

| PARAMETER         | UOM     | LOR  | BH6/0.1-0.3               | BH7/0.1-0.3               | BH8/0.1-0.3               | BH9/0.1-0.3               | BH10/0.1-0.3              |
|-------------------|---------|------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                   |         |      | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                   |         |      | -                         | -                         | -                         | -                         | -                         |
|                   |         |      | 28/1/2020<br>SE202202.006 | 28/1/2020<br>SE202202.007 | 28/1/2020<br>SE202202.008 | 28/1/2020<br>SE202202.009 | 28/1/2020<br>SE202202.010 |
| Asbestos Detected | No unit | -    | Yes                       | No                        | No                        | No                        | No                        |
| Estimated Fibres* | %w/w    | 0.01 | >0.01                     | <0.01                     | <0.01                     | <0.01                     | <0.01                     |

| PARAMETER         | UOM     | LOR  | BH11/0.1-0.3              | BH12/0.1-0.3              | BH13/0.1-0.3              | BH14/0.1-0.3              | BH15/0.1-0.3              |
|-------------------|---------|------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                   |         |      | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                   |         |      | -                         | -                         | -                         | -                         | -                         |
|                   |         |      | 28/1/2020<br>SE202202.011 | 28/1/2020<br>SE202202.012 | 28/1/2020<br>SE202202.013 | 28/1/2020<br>SE202202.014 | 28/1/2020<br>SE202202.015 |
| Asbestos Detected | No unit | -    | No                        | No                        | No                        | No                        | No                        |
| Estimated Fibres* | %w/w    | 0.01 | <0.01                     | <0.01                     | <0.01                     | <0.01                     | <0.01                     |

| PARAMETER         | UOM     | LOR  | BH16/0.1-0.3              | BH17/0.1-0.3              | BH18/0.1-0.3              | BH19/0.1-0.3              | BH20/0.1-0.3              |
|-------------------|---------|------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                   |         |      | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                   |         |      | -                         | -                         | -                         | -                         | -                         |
|                   |         |      | 28/1/2020<br>SE202202.016 | 28/1/2020<br>SE202202.017 | 28/1/2020<br>SE202202.018 | 28/1/2020<br>SE202202.019 | 28/1/2020<br>SE202202.020 |
| Asbestos Detected | No unit | -    | No                        | No                        | No                        | No                        | No                        |
| Estimated Fibres* | %w/w    | 0.01 | <0.01                     | <0.01                     | <0.01                     | <0.01                     | <0.01                     |

| PARAMETER         | UOM     | LOR  | BH21/0.1-0.3              | BH22/0.1-0.3              | BH23/0.1-0.3              | BH24/0.1-0.3              | BH25/0.1-0.3              |
|-------------------|---------|------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|                   |         |      | SOIL                      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                   |         |      | -                         | -                         | -                         | -                         | -                         |
|                   |         |      | 28/1/2020<br>SE202202.021 | 28/1/2020<br>SE202202.022 | 28/1/2020<br>SE202202.023 | 28/1/2020<br>SE202202.024 | 28/1/2020<br>SE202202.025 |
| Asbestos Detected | No unit | -    | No                        | No                        | No                        | No                        | No                        |
| Estimated Fibres* | %w/w    | 0.01 | <0.01                     | <0.01                     | <0.01                     | <0.01                     | <0.01                     |

| PARAMETER         | UOM     | LOR  | BH26/0.1-0.3              | BH27/0.1-0.3              | SP1/0.1-0.3               | QC1                       |
|-------------------|---------|------|---------------------------|---------------------------|---------------------------|---------------------------|
|                   |         |      | SOIL                      | SOIL                      | SOIL                      | SOIL                      |
|                   |         |      | -                         | -                         | -                         | -                         |
|                   |         |      | 28/1/2020<br>SE202202.026 | 28/1/2020<br>SE202202.027 | 28/1/2020<br>SE202202.028 | 28/1/2020<br>SE202202.029 |
| Asbestos Detected | No unit | -    | No                        | No                        | No                        | No                        |
| Estimated Fibres* | %w/w    | 0.01 | <0.01                     | <0.01                     | <0.01                     | <0.01                     |

Fibre ID in bulk materials [AN602]    Tested: 4/2/2020

|                   |         |     | PAC1         | PAC2         |
|-------------------|---------|-----|--------------|--------------|
|                   |         |     | MATERIAL     | MATERIAL     |
|                   |         |     | -            | -            |
|                   |         |     | 28/1/2020    | 28/1/2020    |
|                   |         |     | SE202202.031 | SE202202.032 |
| PARAMETER         | UOM     | LOR |              |              |
| Asbestos Detected | No unit | -   | Yes          | Yes          |

## METHOD

## METHODOLOGY SUMMARY

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AN002       | The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.                                                                                                                                                                                                                                                                                                                                                   |
| AN040/AN320 | A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C.                                                                                                                                                                                                                                                                                                                                                                              |
| AN040       | A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by ASS or ICP as per USEPA Method 200.8.                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| AN312       | Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500                                                                                                                                                                                                        |
| AN403       | Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). F2 is reported directly and also corrected by subtracting Naphthalene (from VOC method AN433) where available.      |
| AN403       | Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoverable Hydrocarbons - Silica (TRH-Si) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents.                                                                                                                                                                                         |
| AN403       | The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B.                                                                                                                                                                      |
| AN420       | (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).                                                                                                                                                                                                                                                                                                                                                                                                              |
| AN420       | SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).                                                                                                                                                                                                                                                                                                                                                                    |
| AN433       | VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC's are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260.                                                                                                                                                                                                                                                                             |
| AN602       | Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.    |
| AN602       | Fibres/material that cannot be unequivocally identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf) The fibres detected may or may not be asbestos fibres.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| AN602       | AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection limit of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."                                                                                                                                                                                                                                                                                                     |
| AN602       | The sample can be reported "no asbestos found at the reporting limit of 0.1 g/kg" (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if- <ul style="list-style-type: none"> <li>(a) no trace asbestos fibres have been detected (i.e. no 'respirable' fibres):</li> <li>(b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg: and</li> <li>(c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions.</li> </ul> |

FOOTNOTES

|    |                                                                    |     |                                   |     |                                    |
|----|--------------------------------------------------------------------|-----|-----------------------------------|-----|------------------------------------|
| *  | NATA accreditation does not cover the performance of this service. | -   | Not analysed.                     | UOM | Unit of Measure.                   |
| ** | Indicative data, theoretical holding time exceeded.                | NVL | Not validated.                    | LOR | Limit of Reporting.                |
|    |                                                                    | IS  | Insufficient sample for analysis. | ↑↓  | Raised/lowered Limit of Reporting. |
|    |                                                                    | LNR | Sample listed, but not received.  |     |                                    |

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.  
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the "Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.

Note that in terms of units of radioactivity:

- 1 Bq is equivalent to 27 pCi
- 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: [www.sgs.com.au/en-gb/environment-health-and-safety](http://www.sgs.com.au/en-gb/environment-health-and-safety).

This document is issued by the Company under its General Conditions of Service accessible at [www.sgs.com/en/Terms-and-Conditions.aspx](http://www.sgs.com/en/Terms-and-Conditions.aspx). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

This report must not be reproduced, except in full.