

7 June 2022

Attention: Chris Bignell
Company: FDC Construction (NSW) Pty Ltd
Fax/email: chrisbi@fdcbuilding.com.au
Address: 22 - 24 Junction Street, Forest Lodge, NSW 2037

Dear Chris,

ASBESTOS REMEDIATION VALIDATION REPORT SYD09, 57 STATION ROAD, SEVEN HILLS NSW 2147

1.0 Introduction

Safe Work & Environments Pty Ltd (SWE) was commissioned by FDC Construction (NSW) Pty Ltd (FDC) to carry out ongoing assessments and staged visual clearances in relation to asbestos remediation activities of Asbestos Remediation Areas within SYD09 at 57 Station Road, Seven Hills NSW 2147 (the Site).

The site inspections were carried out by Alex Mitevski and Rune Knoph (Licensed Asbestos Assessors LAA001172 and LAA000184, respectively), during remediation activities carried out between 22 April and 25 May 2022. This report summarises the remediation areas within SYD09 as identified in the NEPM Asbestos Assessment, SWE March 2022 in line with the SWE RAP for the asbestos remediation of the site and the subsequent visual clearance inspections following each asbestos remediation.

This report pertains to the following locations within the site:

Table 1 – Remediation Areas within SYD09 Including Grids (Orange and Red) and UFs				
Location No.	Contaminant of Concern (COC)	Area ~m ²	Depth of Excavation (m) / ~Volume m ³	Comment/
UF07	Hydrocarbons/UPST	50m ²	70 m ³	UPST tank and surrounding hydrocarbon contaminated soil remediated and validated.
UF08	Asbestos Only	<10m ²	0.1m/ 1m ³	Chased and cleared 22/04
UF09	Asbestos Only	80m ²	0.2m/ 16m ³	Chased and cleared 22/04
TP55	Asbestos Only	400m ²	0.3m/ 120 m ³	Cleared to 0.3bgs as per RAP
TP48	Asbestos Only	400m ²	0.3m/ 120m ³	Cleared to 0.3bgs as per RAP

S110506-Validation Report - SYD09 Remediation Areas-L01

Table 1 – Remediation Areas within SYD09 Including Grids (Orange and Red) and UFs				
Location No.	Contaminant of Concern (COC)	Area ~m²	Depth of Excavation (m) / ~Volume m³	Comment/
TP54	Asbestos Only	400m ²	0.3m/ 120m ³	Cleared to 0.3bgs as per RAP
Orange Stockpile	Asbestos Only	350m ²	NA/ 1000m ³	Assessed as orange through NEPM sampling and replaced in SYD08.
SUMMARY TOTAL	Asbestos Only	3,850m²	1,377m³	This summarises the asbestos remediation work to date for SYD09

1.1 Scope of Work

The scope of works for the visual clearance and validation of the nominated areas were to:

- Perform a visual clearance of the contaminated areas following the removal of asbestos contaminated soil to confirm all visual signs of asbestos contamination have been removed;
- Undertake soil sampling at the sample rate specified within the ‘*Guidelines for the Assessment, Remediation and Management of Asbestos – Contaminated Sites in Western Australia (2009)*’;
- Laboratory analysis of samples at a NATA Accredited laboratory; and
- Preparation of an asbestos clearance and validation report confirming the site is appropriately remediated for its intended use.

1.2 Background

The Unexpected Finds documented in this validation report were identified at various occasions during early stages of work to the site, as well as during two site assessments carried out by SWE. In addition, further UF and/or extent of contamination more than the initial assessment were also progressively uncovered during the remediation activities on site for some areas. These additional findings and/or volumes of soil contaminated with asbestos were ongoing assessed and remediated as per **Section 7.3.2** in the RAP prepared by SWE, dated 26 April 2022, and the associated Unexpected Finds Protocol (**Appendix A** of the RAP).

The previous investigations and assessments of asbestos to the site that uncovered a number of the above UFs are:

- Preliminary Asbestos Assessment (16 March 2022, SWE)
- NEPM Asbestos Assessment (April 2022, SWE)
- Remediation Action Plan (26 April 2022, SWE)

Summary of the UFs and additional volumes of asbestos to red grids can be found in the following sections.

2.0 Summary of Observations, Findings and Remediation

2.1 UF08

The UF08 was identified during site work on 11 April 2022 centrally to SYD09 within soil sources from TP48 where suspected hydrocarbon contamination was investigated, and the soil disturbed through this process. The impacted area was estimated at 10m^2 with an undefined depth of the contamination. As significant numbers of asbestos fragments were located at this location, the contamination was visually chased by excavation on 22 April until no further evidence of asbestos was evident after a shallow excavator scrape of the perceived impacted area. The UF was cleared on 22 April 2022 (Refer to **Appendix B - Clearance Certificates**). The remediation of the UF extended to about 10m^2 to a depth of 0.1m bgs. The estimated volume of the asbestos contaminated soil was 1m^3 .

2.3 UF09

The UF09 was identified during site work on 11 April 2022 to ground surface at the NE corner of SYD09. The impacted area was estimated at 80m^2 with an undefined depth of the contamination. As significant numbers of asbestos fragments were located at this location, the contamination was visually chased by excavation from 20-22 April until no further evidence of asbestos was evident after a shallow excavator scrape of the perceived impacted area. The UF was cleared on 22 April 2022 (Refer to **Appendix B - Clearance Certificates**). The remediation of the UF extended to about 80m^2 to a depth of 0.2m bgs. The estimated volume of the asbestos contaminated soil was 16m^3 .

2.4 UF07

Visual and olfactory indications of hydrocarbon contamination were encountered by SWE staff during shallow excavations (approximately 200 millimetres (mm) below ground level) in the northeast corner of SYD-09 during an asbestos in soil quantification assessment at the Site. At the request of the client, SWE returned to site to further investigate the potential hydrocarbon contamination, which resulted in the confirmation of the presence of another UPST onsite. An area of approximately 10 metres (m) radius was cordoned off and deemed an exclusion zone around the UPST, with arrangements made for a licensed UPST removal contractor to remove the unit.

The UPST and associated contaminated soils were remediated on the 9th and 17th of May 2022. Validation samples were collected on completion with the results of the sampling returning concentrations of BTEX, PAH, TRH, and Lead either below the laboratory limit of reporting or present below the adopted SAC for the assigned land use. One of the base samples failed during the sampling carried out on 9th of May and hence, further excavation and site observations were made to remediate a further approximate 600mm depth to the base until no further odour and soil vapours could be detected. The additional validation sampling event on the 17th of May 2022 returned validation results within the SAC for both base samples and hence the base could also obtain final validation. Refer to the UPST Validation report dated 7 June 2022 for further documentation with regards the remediation and validation of this UF07.

2.4 Stockpile (Orange) – 25 May 2022

The orange stockpile located to the north end of the SYD09 have been relocated to SYD08. The footprint of the stockpile was visually cleared for asbestos contamination. Refer **Appendix B - Clearance Certificates** for the visual clearance of the stockpile footprint. The stockpile (orange soil) will be required further tracked, monitored, and handled under asbestos controls during further re-use of the soil within SYD08.

2.4 TP55 (Red)

The TP55 Grid is an area of approximately 20m by 20m to the south end of SYD09 along the eastern site boundary. The area comprises an area of initial identification of asbestos finds in the Preliminary Asbestos Assessment, as well as the NEPM Asbestos Assessment to this area identified by grid number TP55. The NEPM assessment also found Asbestos Fines (AF) within the laboratory soil sample for this sampling location and hence the soil was deemed friable in line with the NEPM and the associated WA Guidelines. As such this grid was remediated in accordance with the SWE prepared Remedial Action Plan (RAP) following the off-site disposal strategy. The soil was scraped down to the clay layer at a 0.3m below ground surface (bgs), followed by visual clearance and soil validation sampling for asbestos as per the validation requirements of the RAP. Refer to **Appendix E** for the tip dockets for the disposal of the GSW with asbestos soil.

The remediation of the grid extended to about 400m² to a depth of approximately 0.30m bgs. The estimated volume of the asbestos contaminated soil was 120m³. Refer to **Appendix A – Site Plan** for the approximate location of this Grid. The area has also had an additional waste classification assessment carried out on it, resulting in a classification of the soil as general solid waste with asbestos. Refer to **Appendix C – Waste Classification**.

2.4 TP 48 and 54

The TP48 and TP54 Grids are two adjoining areas of approximately 20m by 20m each to the central portion of SYD09 directly west of TP55. The area comprises two areas identified to contain asbestos contamination within the soil during the NEPM Asbestos Assessment to this area identified as grid number TP48 and TP54. The NEPM assessment did not find any AF or friable asbestos (FA) within the laboratory soil samples for this sampling location and hence the soil was deemed as non-friable in line with the NEPM and the associated WA Guidelines. As such these grids were remediated in accordance with the SWE prepared Remedial Action Plan (RAP) following the re-use on site strategy. The soil was scraped down to the clay layer at a 0.3m below ground surface (bgs), followed by visual clearance for asbestos as per the validation requirements of the RAP.

The remediation of the grids extended to about 800m² to a depth of approximately 0.30m bgs. The estimated volume of the asbestos contaminated soil was 240m³. Refer to **Appendix A – Site Plan** for the approximate location of these Grids.

3.0 Overview of Remediation Activities

The abovementioned asbestos remediation works for the nominated areas were completed on various days during April and May 2022. All asbestos works were performed by licensed asbestos removal contractors. Matt Dalley Demolition Pty Ltd, a Class A licensed asbestos removal contractor, as well as a Class B licensed asbestos removalist Jeffsann Pty Ltd, which provided all site personnel and supervised the designated asbestos removal area during works with regards to health, safety, and environmental controls. SWE carried out all visual clearance inspections of remediated work areas.

4.0 VALIDATION OF WORKS

4.1 *Visual Clearances*

Visual inspections of the Site were undertaken following the remediation work to note the presence or non-presence of visible traces of ACM. These visual inspections were carried out to confirm that the designated asbestos remediation work areas were satisfactorily cleared of the ACM and that the areas were suitable for re-occupancy without the use of asbestos personal protective equipment (PPE).

The exposed ground surfaces and excavation walls were visually inspected at completion of remediation works on various as part of a visual clearance inspection. Refer to **Appendix B** for clearances for the following UFs and Grids:

- UF08 – 22 April 2022
- UF09 – 22 April 2022
- TP55 – 27 April 2022
- TP48 – 02 May 2022
- TP54 – 02 May 2022
- SYD09 - Orange Stockpile – 25 May 2022

4.2 **Visual Clearances**

No ACM fragments were encountered during the visual clearance inspections of the subject remediation areas and associated stockpiles.

4.3 Soil Validation Sampling

4.3.1 Asbestos In Soil

In addition to the above-mentioned visual clearances, further soil validation sampling was carried out to the exposed post excavation ground surface of TP55. A total of **eight (8)** soil validation samples were collected from the remediation Grid TP55 footprint.

Discretionary sampling for both ACM and FA followed, at each soil sample location, with a minimum volume of 10L of soil was screened by passing soil through a 7 mm sieve screen on-site to detect for cement sheet fragments and other ACM. The number and mass of any potential ACM retained on the screen was recorded.

A minimum of 500 mL of soil was then collected from the sieved soil and placed in a zip lock sample bag. Samples were double bagged and placed in storage containers prior to delivery to a NATA accredited laboratory (see **Appendix C: Certificate of Analysis**).

The assessment criteria (Health Screening levels) for asbestos in soil are presented in **Table 2** below.

Table 2 – NEPM (2013) Health Screening Levels for Asbestos in Soil Investigations

	Health Screening Levels (w/w)			
Form of asbestos	Residential A1	Residential B2	Recreational C3	Commercial/Industrial D4
Bonded ACM	0.01%	0.04%	0.02%	0.05%
Friable Asbestos (FA) and Asbestos Fines (AF)	0.001%			
All forms of asbestos	No visible asbestos for surface soil			

4.3.2 Results

A summary of results is presented in Tables 3 and below:

Table 3 – Asbestos in Soil Validation Sampling Results – TP55

SWE Ref.	Location	ACM identified	FA and FA
S110506.4/S01	Grid TP55 – Sample 1	No ACM detected	No asbestos detected at the reporting limit of 0.1g/Kg
S110506.4/S02	Grid TP55 – Sample 2	No ACM detected	No asbestos detected at the reporting limit of 0.1g/Kg
S110506.4/S03	Grid TP55 – Sample 3	No ACM detected	No asbestos detected at the reporting limit of 0.1g/Kg
S110506.4/S04	Grid TP55 – Sample 4	No ACM detected	No asbestos detected at the reporting limit of 0.1g/Kg
S110506.4/S05	Grid TP55 – Sample 5	No ACM detected	No asbestos detected at the reporting limit of 0.1g/Kg
S110506.4/S06	Grid TP55 – Sample 6	No ACM detected	No asbestos detected at the reporting limit of 0.1g/Kg
S110506.4/S07	Grid TP55 – Sample 7	No ACM detected	No asbestos detected at the reporting limit of 0.1g/Kg
S110506.4/S08	Grid TP55 – Sample 8	No ACM detected	No asbestos detected at the reporting limit of 0.1g/Kg

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4.3.3 Soil Validation Sampling

All asbestos in soil samples collected from the remediation areas returned results below the applied assessment criteria for the validation of the site. This soil validation sampling further confirms that the remediation of the asbestos contamination and visual clearance of the exposed ground surfaces and walls are satisfactorily to guidelines.

5.0 Conclusion

The planned remediation works of UF No. 8 and 9, TP48, TP54 and TP55 have been undertaken and completed in the specified areas of the site as per the recommendations made by SWE in the asbestos assessment reports and RAP prepared for the site.

All quantification field screening conducted for Red Grid TP55 only, for asbestos and laboratory analysis of samples returned a **No Asbestos Detected Result**, which is below the applicable NEPM Health Screening Levels of 0.05% for bonded ACM and 0.001% for friable asbestos for Commercial/Industrial D4 land use. These results suggest that the contaminated areas are not considered contaminated under the NEPM (2013). Hence, no further assessment or remediation is recommended at this stage for the subject remediation areas covered by TP55.

All identified asbestos surface contamination to the nominated removal areas have been removed. All asbestos remediation works were carried out under the supervision of a Class A asbestos removal contractor, Matt Dalley Demolition Pty Ltd and a Class B asbestos removal contractor, Jeffsann Pty Ltd.

The removal work areas are now suitable for general access without the use of asbestos PPE.

Yours faithfully,



Rune Knoph

Principal WHS&E Consultant
Licenced Asbestos Assessor LAA000184

Safe Work and Environments Pty Ltd

7/103 Majors Bay Road, Concord NSW 2137

P: 02 8757 3611

M: 0421 559 614

Email: rknoph@swe.com.au

www.swe.com.au

Attachments:

Photographs

Appendix A – Site Plan

Appendix B – Clearance Certificates

Appendix C – Waste Classifications

Appendix D – Certificate of Analysis – Asbestos Validation Samples

Appendix E – Waste Disposal Tip Dockets

S110506-Validation Report - SYD09 Remediation Areas-L01

Safe Work and Environments Pty Ltd ABN 88127010995

7/103 Majors Bay Road, Concord NSW 2137

Phone: 02 8757 3611 Fax: 02 8757 3612

Email: enquiries@swe.com.au

6.0 References

- National Environmental Protection Council (NEPC) (1999) '*National Environment Protection (Assessment of Site Contamination) Measure 1999*' (amended 2013), and herein referred to as (ASC NEPM (2013)).
- National Occupational Health and Safety Commission (NOHSC) 'Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Dust' [NOHSC: 3003 (2005)].
- NSW Department of Environment and Climate Change (2009a) 'Contaminated Sites: Guidelines on the Duty to Report Contamination under the Contaminated Land Management Act 1997'.
- NSW Department of Environment and Conservation (2006) 'Guidelines for the NSW Site Auditor Scheme, 2nd ed'.
- NSW Department of Environment and Conservation (1997) 'Guidelines for the Assessment and Management of Groundwater Contamination'.
- NSW EPA (2014) 'Waste Classification Guidelines'.
- NSW EPA (2006) 'Guidelines for the NSW site Auditor Scheme. 2nd edition'.
- NSW EPA (1995) 'Sampling Design Guidelines. ISBN 0-7310-3756-1'.
- NSW EPA (2020) 'Consultants Reporting on Contaminated Land, Contaminated Land Guidelines'.
- Safe Work Australia (2015) 'Excavation Work Code of Practice'.
- Safe Work Australia (2016) 'How to Manage and Control Asbestos in the Workplace Code of Practice'.
- Safe Work Australia (2018) 'How to Safely Remove Asbestos Code of Practice'.
- Safe Work Australia (2018) 'Code of Practice on How to Safely Remove Asbestos'.
- WorkCover NSW (2014) 'Guidelines for Managing Asbestos in or on Soil'.
- WA Department of Health (DOH) (2021) 'Guidelines for the Assessment Remediation and Management of Asbestos Contaminated Site in Western Australia', and herein referred to as the (WA Guidelines).

7.0 Limitations

This report and the associated services performed by SWE are in accordance with the scope of services set out in the agreement between SWE and the Client. The scope of services was defined by the requests of the Client, by the time and budgetary constraints imposed by the Client, and by the availability of access to the Subject Site.

SWE derived the data in this report primarily from limited sample collection and analysis made on the dates indicated. In preparing this report, SWE has relied upon, and presumed accurate, certain information provided by government authorities, the Client and others identified herein. Except as otherwise stated in the report, SWE has not attempted to verify the accuracy or completeness of any such information.

Should you have any queries regarding this report, please do not hesitate to contact the undersigned for further information or assistance.

Photographs

S110506-Validation Report - SYD09 Remediation Areas-L01

Photograph 1: Shows the **UF08** area after remediation activities.



Photograph 2: Shows the **UF09** area after remediation activities.



Photograph 3: Shows the **TP55** area after remediation activities.



Photograph 4: Shows the **TP55** area after remediation activities.

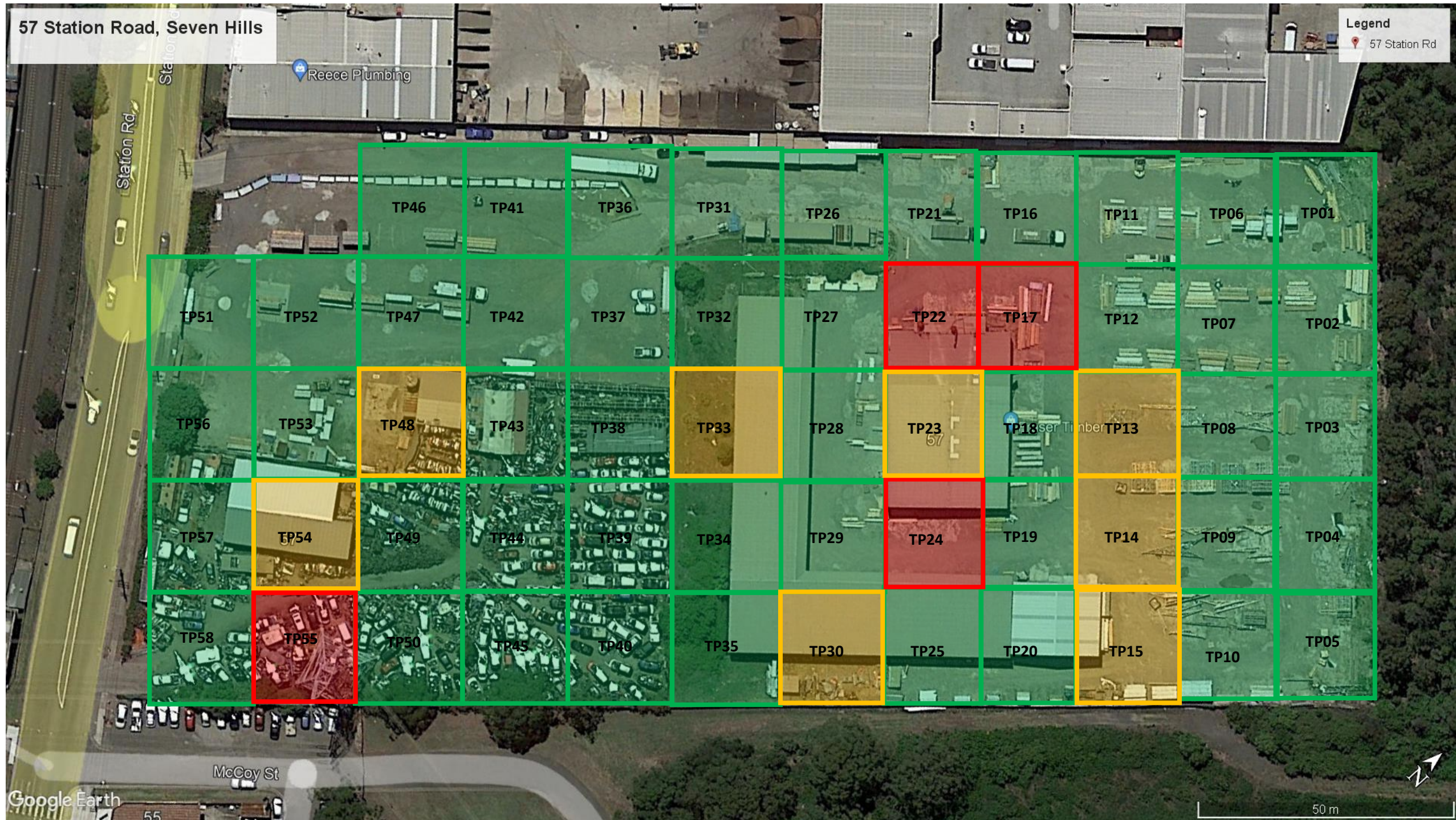


Appendix A

Site Plan

S110506-Validation Report - SYD09 Remediation Areas-L01

Safe Work and Environments Pty Ltd ABN 88127010995
7/103 Majors Bay Road, Concord NSW 2137
Phone: 02 8757 3611 Fax: 02 8757 3612
Email: enquiries@swe.com.au



- Legend:**
- Test pit samples with no visual asbestos observed
 - Test pit samples with visual asbestos below the NEPM criteria
 - Test pit samples with asbestos % above the NEPM Criteria

Scale:
as shown

Source:
Google Earth Pro

Client: FDC Construction Pty Ltd
Project Code: S110506
Date Drawn: 29/03/2022
Drawn by: Alexandar Mitevski

Soil Validation Assessment
 57 Station Road, Seven Hills, NSW, 2147

Disclaimer: This figure may be based on third party data or data which has not been verified by SWE and it may not be to scale. As such, unless expressly agreed otherwise, this figure is intended as a guide online and SWE does not warrant its accuracy

SAFE WORK & ENVIRONMENTS
 ENVIRONMENTAL & WHS CONSULTANTS

Appendix B

Clearance Certificates

S110506-Validation Report - SYD09 Remediation Areas-L01

Safe Work and Environments Pty Ltd ABN 88127010995
7/103 Majors Bay Road, Concord NSW 2137
Phone: 02 8757 3611 Fax: 02 8757 3612
Email: enquiries@swe.com.au

22 April 2022

Attention: Chris Bignell
Company: FDC Construction (NSW) Pty Ltd
Fax/email: chrisbi@fdc.com.au
Address: 22-24 Junction Street, Forest Lodge NSW 2037
Client Reference: UF08, 57 Station Road, Seven Hills NSW 2147

Dear Chris,

CLEARANCE CERTIFICATE FOR ASBESTOS REMOVAL WORK

Removalist:	Matt Dalley Demolition Pty Ltd
Removalist Contact:	John Ward – 0449 832 330
Date of inspection:	22 April 2022 – 12.45PM
Site address:	57 Station Street, Seven Hills, NSW 2147
SWE Surveyor:	Rune Knoph
Friable or Non-friable:	Non-Friable

Introduction & Scope:

Safe Work and Environments Pty Ltd (SWE) was engaged by FDC Construction (NSW) Pty Ltd to undertake a visual clearance inspection subsequent to asbestos removal works at the above-mentioned site. Rune Knoph (Principal WHS&E Consultant) carried out a visual clearance inspection on the 22nd of April 2022.

Works Inspected:

The following asbestos remediation work was confirmed carried out by way of visual inspection:

Hazmat Type	Photo No.	Remediation Type	Primary location	Secondary location	Application and material	Quantity
Asbestos	1 – 4	Removal – bulk excavation	SYD09	Ground Surface of UF-08, SW corner of TP48	Asbestos cement sheeting contaminated fill	Approx 1m ³

Results of Inspection:

The assessor found no visible asbestos fibre cement fragments or debris in the area, transit route or in the vicinity of the area, where the work was carried out. The results of the visual inspection indicate that the area inspected is safe for normal use.

Air Monitoring Results:

Control monitoring for airborne asbestos fibres was conducted around the asbestos removal area during the asbestos removal work. All air monitoring results were below the lower detection limit of the method used which is 0.01 fibres/mL of air.

Exclusions and No Access Areas:

The clearance inspection was limited to the above listed and inspected materials only.

Limitations:

Inspections are carried out in a thorough and professional manner but are limited to the scope of the works as outlined by the client. Clearance inspections and reports exclude hazardous building material(s) that may be found in concealed or inaccessible areas including within building cavities and below the ground surface.

No warranty, undertaking, or guarantee, whether expressed or implied, is made with respect to the information reported or to the findings, observation, conclusions and recommendations expressed in this report. Furthermore, such information, findings, observations, conclusions and recommendations are based solely upon conditions at the time of the investigation. The passage of time, manifestation of latent conditions or impacts of future events may require that further investigation be undertaken and subsequent re-evaluation of the findings, observation, conclusions and recommendations expressed in this report.

Closure:

Should you have any queries regarding this certificate, please do not hesitate to contact the office on (02) 8757 3611 for further information or assistance.

Sincerely,



Rune Knoph
Principal WHS&E Consultant
LAA000184

ATTACHMENT A – PHOTOGRAPHS

Photograph 1 – Removal area subsequent to remediation works



Photograph 2 – Removal area subsequent to remediation works



Photograph 3 – Removal area subsequent to remediation works



Photograph 4 – Removal area subsequent to remediation works



22 April 2022

Attention: Chris Bignell
Company: FDC Construction (NSW) Pty Ltd
Fax/email: chrisbi@fdc.com.au
Address: 22-24 Junction Street, Forest Lodge NSW 2037
Client Reference: UF09, 57 Station Road, Seven Hills NSW 2147

Dear Chris,

CLEARANCE CERTIFICATE FOR ASBESTOS REMOVAL WORK

Removalist:	Matt Dalley Demolition Pty Ltd
Removalist Contact:	John Ward – 0449 832 330
Date of inspection:	22 April 2022 – 13.30PM
Site address:	UF09, 57 Station Street, Seven Hills, NSW 2147
SWE Surveyor:	Rune Knoph
Friable or Non-friable:	Non-Friable

Introduction & Scope:

Safe Work and Environments Pty Ltd (SWE) was engaged by FDC Construction (NSW) Pty Ltd to undertake a visual clearance inspection subsequent to asbestos removal works at the above-mentioned site. Rune Knoph (Principal WHS&E Consultant) carried out a visual clearance inspection on the 22nd of April 2022.

Works Inspected:

The following asbestos remediation work was confirmed carried out by way of visual inspection:

Hazmat Type	Photo No.	Remediation Type	Primary location	Secondary location	Application and material	Quantity
Asbestos	1 – 4	Removal – bulk excavation	SYD09	UF09, Ground Surface, NE Corner of SYD09	Asbestos cement sheeting contaminated fill	Approx. 15m ³

Results of Inspection:

The assessor found no visible asbestos fibre cement fragments or debris in the area, transit route or in the vicinity of the area, where the work was carried out. The results of the visual inspection indicate that the area inspected is safe for normal use.

Air Monitoring Results:

Control monitoring for airborne asbestos fibres was conducted around the asbestos removal area during the asbestos removal work. All air monitoring results were below the lower detection limit of the method used which is 0.01 fibres/mL of air.

Exclusions and No Access Areas:

The clearance inspection was limited to the above listed and inspected materials only.

Limitations:

Inspections are carried out in a thorough and professional manner but are limited to the scope of the works as outlined by the client. Clearance inspections and reports exclude hazardous building material(s) that may be found in concealed or inaccessible areas including within building cavities and below the ground surface.

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Closure:

Should you have any queries regarding this certificate, please do not hesitate to contact the office on (02) 8757 3611 for further information or assistance.

Sincerely,



Rune Knoph
Principal WHS&E Consultant
LAA000184

ATTACHMENT A – PHOTOGRAPHS

Photograph 1 – Removal area subsequent to remediation works



Photograph 2 – Removal area subsequent to remediation works



Photograph 3 – Removal area subsequent to remediation works



Photograph 4 – Fibro sheeting emu picked to area immediately south of the removal zone for UF09.



28 April 2022

Attention: Chris Bignell
Company: FDC Construction (NSW) Pty Ltd
Fax/email: chrisbi@fdc.com.au
Address: 22-24 Junction Street, Forest Lodge NSW 2037
Client Reference: TP55, 57 Station Road, Seven Hills NSW 2147

Dear Chris,

CLEARANCE CERTIFICATE FOR ASBESTOS REMOVAL WORK

Removalist:	Matt Dalley Demolition Pty Ltd
Removalist Contact:	John Ward – 0449 832 330
Date of inspection:	27 April 2022 – 09.30AM
Site address:	TP55, 57 Station Street, Seven Hills, NSW 2147
SWE Surveyor:	Rune Knoph
Friable or Non-friable:	Friable

Introduction & Scope:

Safe Work and Environments Pty Ltd (SWE) was engaged by FDC Construction (NSW) Pty Ltd to undertake a visual clearance inspection subsequent to asbestos removal works at the above-mentioned site. Rune Knoph (Principal WHS&E Consultant) carried out a visual clearance inspection on the 27th of April 2022.

Works Inspected:

The following asbestos remediation work was confirmed carried out by way of visual inspection:

Hazmat Type	Photo No.	Remediation Type	Primary location	Secondary location	Application and material	Quantity
Asbestos	1 – 2	Removal – bulk excavation	SYD09	TP55, Ground Surface, NE Corner of SYD09	Asbestos cement sheeting contaminated fill	80m ³

Results of Inspection:

The assessor found no visible asbestos fibre cement fragments or debris in the area, transit route or in the vicinity of the area, where the work was carried out. The results of the visual inspection indicate that the area inspected is safe for normal use.

In addition, to the above-mentioned visual clearances, further soil validation sampling was carried out to the exposed ground surface. A total of eight (8) soil validation samples were collected from the remediation area. These samples were analysed in the SWE in-house NATA accredited laboratory, which did not return any detectable concentration of asbestos in soil. Refer to the staged validation report for SYD09 for further information and copy of the laboratory analysis report.

Air Monitoring Results:

Control monitoring for airborne asbestos fibres was conducted around the asbestos removal area during the asbestos removal work. All air monitoring results were below the lower detection limit of the method used which is 0.01 fibres/mL of air.

Exclusions and No Access Areas:

The clearance inspection was limited to the above listed and inspected materials only.

Limitations:

Inspections are carried out in a thorough and professional manner but are limited to the scope of the works as outlined by the client. Clearance inspections and reports exclude hazardous building material(s) that may be found in concealed or inaccessible areas including within building cavities and below the ground surface.

No warranty, undertaking, or guarantee, whether expressed or implied, is made with respect to the information reported or to the findings, observation, conclusions and recommendations expressed in this report. Furthermore, such information, findings, observations, conclusions and recommendations are based solely upon conditions at the time of the investigation. The passage of time, manifestation of latent conditions or impacts of future events may require that further investigation be undertaken and subsequent re-evaluation of the findings, observation, conclusions and recommendations expressed in this report.

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Sincerely,



Rune Knoph
Principal WHS&E Consultant
LAA000184

ATTACHMENT A – PHOTOGRAPHS

Photograph 1 – Removal area subsequent to remediation works



Photograph 2 – Removal area subsequent to remediation works



02 May 2022

Attention: Chris Bignell
Company: FDC Construction (NSW) Pty Ltd
Fax/email: chrisbi@fdc.com.au
Address: 22-24 Junction Street, Forest Lodge NSW 2037
Client Reference: TP48 and TP 54, 57 Station Road, Seven Hills NSW 2147

Dear Chris,

CLEARANCE CERTIFICATE FOR ASBESTOS REMOVAL WORK

Removalist:	Jeffermann Pty Ltd
Removalist Contact:	Laurie Refalo - 0409 302 958
Date of inspection:	02 May 2022 – 14.20PM
Site address:	57 Station Street, Seven Hills, NSW 2147
SWE Surveyor:	Alexandar Mitevski
Friable or Non-friable:	Non-Friable

Introduction & Scope:

Safe Work and Environments Pty Ltd (SWE) was engaged by FDC Construction (NSW) Pty Ltd to undertake a visual clearance inspection subsequent to asbestos removal works at the above-mentioned site. Alexandar Mitevski (WHS&E Consultant) carried out a visual clearance inspection on the 02nd of May 2022.

Works Inspected:

The following asbestos remediation work was confirmed carried out by way of visual inspection:

Hazmat Type	Photo No.	Remediation Type	Primary location	Secondary location	Application and material	Quantity
Asbestos	1 – 4	Removal – bulk excavation	SYD08	Ground Surface of TP48	Asbestos cement sheeting contaminated fill	Approx 200m ³
Asbestos	1 – 4	Removal – bulk excavation	SYD08	Ground Surface of TP54	Asbestos cement sheeting contaminated fill	Approx 200m ³

Results of Inspection:

The assessor found no visible asbestos fibre cement fragments or debris in the area, transit route or in the vicinity of the area, where the work was carried out. The results of the visual inspection indicate that the area inspected is safe for normal use.

Exclusions and No Access Areas:

The clearance inspection was limited to the above listed and inspected materials only.

The contaminated stockpile from the soil scrape remains present at the western end of TP48. Once the stockpile has been removed, a final ground surface clearance will be done, then a final clearance certificate will be issued.

Limitations:

Inspections are carried out in a thorough and professional manner but are limited to the scope of the works as outlined by the client. Clearance inspections and reports exclude hazardous building material(s) that may be found in concealed or inaccessible areas including within building cavities and below the ground surface.

No warranty, undertaking, or guarantee, whether expressed or implied, is made with respect to the information reported or to the findings, observation, conclusions and recommendations expressed in this report. Furthermore, such information, findings, observations, conclusions and recommendations are based solely upon conditions at the time of the investigation. The passage of time, manifestation of latent conditions or impacts of future events may require that further investigation be undertaken and subsequent re-evaluation of the findings, observation, conclusions and recommendations expressed in this report.

Closure:

Should you have any queries regarding this certificate, please do not hesitate to contact the office on (02) 8757 3611 for further information or assistance.

Sincerely,



Alexandar Mitevski
WHS&E Consultant
LAA001172

ATTACHMENT A – PHOTOGRAPHS

Photograph 1 – TP54 removal area subsequent to remediation works



Photograph 2 – TP54 removal area subsequent to remediation works



Photograph 3 – TP48 Removal area subsequent to remediation works. Stockpile to be removed at a later date.



Photograph 4 – TP48 removal area subsequent to remediation works. Stockpile to be removed at a later date.



S110506-CC-FDC-SevenHills-TP48.TP54-020522

25 May 2022

Attention: Chris Bignell
Company: FDC Construction (NSW) Pty Ltd
Fax/email: chrisbi@fdc.com.au
Address: 22-24 Junction Street, Forest Lodge NSW 2037
Client Reference: TP48 and TP 54, 57 Station Road, Seven Hills NSW 2147

Dear Chris,

CLEARANCE CERTIFICATE FOR ASBESTOS REMOVAL WORK

Removalist:	Jeffermann Pty Ltd
Removalist Contact:	Laurie Refalo - 0409 302 958
Date of inspection:	25 May 2022 – 10.30AM
Site address:	SYD09 Stockpile Footprint; 57 Station Street, Seven Hills, NSW 2147
SWE Surveyor:	Rune Knoph
Friable or Non-friable:	Non-Friable

Introduction & Scope:

Safe Work and Environments Pty Ltd (SWE) was engaged by FDC Construction (NSW) Pty Ltd to undertake a visual clearance inspection subsequent to asbestos removal works at the above-mentioned site. Rune Knoph (WHS&E Consultant) carried out a visual clearance inspection on the 25th of May 2022.

Works Inspected:

The following asbestos remediation work was confirmed carried out by way of visual inspection:

Hazmat Type	Photo No.	Remediation Type	Primary location	Secondary location	Application and material	Quantity
Asbestos	1 – 4	Removal – bulk excavation	SYD09	Footprint of Orange Large Stockpile	Asbestos cement sheeting impacted fill	Approx. 1000m ³

Results of Inspection:

The assessor found no visible asbestos fibre cement fragments or debris in the area, transit route or in the vicinity of the area, where the work was carried out. The results of the visual inspection indicate that the area inspected is safe for normal use.

Exclusions and No Access Areas:

The clearance inspection was limited to the above listed and inspected materials only.

The contaminated stockpile remain in situ however, have been relocated to SYD08 directly north of original location of stockpile. Once the stockpile has been removed, a final ground surface clearance will be done, then a final clearance certificate will be issued.

Limitations:

Inspections are carried out in a thorough and professional manner but are limited to the scope of the works as outlined by the client. Clearance inspections and reports exclude hazardous building material(s) that may be found in concealed or inaccessible areas including within building cavities and below the ground surface.

No warranty, undertaking, or guarantee, whether expressed or implied, is made with respect to the information reported or to the findings, observation, conclusions and recommendations expressed in this report. Furthermore, such information, findings, observations, conclusions and recommendations are based solely upon conditions at the time of the investigation. The passage of time, manifestation of latent conditions or impacts of future events may require that further investigation be undertaken and subsequent re-evaluation of the findings, observation, conclusions and recommendations expressed in this report.

Closure:

Should you have any queries regarding this certificate, please do not hesitate to contact the office on (02) 8757 3611 for further information or assistance.

Sincerely,



Rune Knoph
Principal WHS&E Consultant
LAA000184

ATTACHMENT A – PHOTOGRAPHS

Photograph 1 – Removal area subsequent to remediation works



Photograph 2 – Removal area subsequent to remediation works. Also showing the new location of stockpile now sitting in SYD09/batter up to/level with batter summit.



Photograph 3 – Removal area subsequent to remediation works



Photograph 4 – Removal area subsequent to remediation works



Appendix C

Waste Classifications

S110506-Validation Report - SYD09 Remediation Areas-L01

Safe Work and Environments Pty Ltd ABN 88127010995
7/103 Majors Bay Road, Concord NSW 2137
Phone: 02 8757 3611 Fax: 02 8757 3612
Email: enquiries@swe.com.au

07 April 2022

Attention: Chris Bignell
Company: FDC Construction (NSW) Pty Ltd
Email: chrisbi@fdcbuilding.com.au

Dear Chris,

WASTE CLASSIFICATION

CLASSIFICATION: GENERAL SOLID WASTE WITH SPECIAL WASTE (ASBESTOS)

Removalist:	FDC Construction (NSW) Pty Ltd
Date of sampling:	5 April 2022
Site address:	57 Station Road, Seven Hills NSW 2147
SWE consultant:	Rune Knoph & Karl Grovenor
Material Classified:	Brown to grey sandy loam soil. No hydrocarbon or chemical odour.
Volume Classified:	Approximately 600m ³

1.0 Background

FDC Construction (NSW) Pty Ltd engaged Safe Work and Environments Pty Ltd (SWE) to provide a waste classification of soil to be excavated from the SYD-08 and SYD-09 areas of 57 Station Road, Seven Hills.

2.0 Methods

Five (5) in-situ soil samples were collected by SWE from five (5) nominated areas across the site prior to excavation and disposal of fill material by the client.

These twenty five (25) samples were forwarded to Envirolab Services for chemical analysis of the following suite:

- Total Recoverable Hydrocarbons;
- BTEX (benzene, toluene, ethylbenzene and xylenes);
- Polycyclic Aromatic Hydrocarbons (PAHs);
- Organochlorine/organophosphorus pesticides;
- Polychlorinated biphenyls (PCBs);
- Heavy Metals including (arsenic, cadmium, chromium, copper, nickel, mercury, lead and zinc); and
- TCLP on PAHs and Heavy Metals.

S110506-FDC-WasteClass-SevenHills-050422

The subject areas of this assessment have been previously identified to contain asbestos in soil in excess of the NEPM HILs for commercial/industrial use.

3.0 Results

A copy of certificate of analysis is provided in **Attachment A**.

At the time of sampling, there were no anecdotal evidence or site observations made suggesting the presence of putrescible waste in the soil. Fragments of fibre cement sheeting were noted to topsoils in the vicinity of the areas sampled.

Exceedances of the General Solid Waste criteria outlined in Table 1 of the NSW EPA *Waste Classification Guidelines, Part 1: Classifying Waste, November 2014* (NSW EPA 2014) were identified to a small number of samples for benzo(a)pyrene, chromium, lead and nickel. However, the 95% UCL average across all samples were below the aforementioned General Solid Waste criteria for all analytes. As the subject soils are to be excavated, stockpiled, transported and disposed of together, it is the opinion of SWE that the assessed material meets the criteria for General Solid Waste with Special Waste (asbestos)

4.0 Conclusion

The material is classified as **General Solid Waste** based on its chemical composition and **Special Waste** based on the presence of asbestos in accordance with the *Waste Classification Guidelines* (NSW EPA 2014) concerning field observations and laboratory analysis data.

5.0 Closure

We trust the foregoing is of assistance. Please do not hesitate to contact the undersigned on (02) 8757 3611 for any further information or assistance.

Yours sincerely,



Karl Grovenor
WHS&E Consultant

Attachment A: Certificates of Analysis
Attachment B: Waste Table

ATTACHMENT A – CERTIFICATE OF ANALYSIS

S110506-FDC-WasteClass-SevenHills-050422

Safe Work and Environments Pty Ltd ABN 88127010995
7/103 Majors Bay Road, Concord, NSW 2137
Phone: 02 8757 3611 Fax: 02 8757 3612
Email: enquiries@swe.com.au



Envirolab Services Pty Ltd

ABN 37 112 535 645

12 Ashley St Chatswood NSW 2067

ph 02 9910 6200 fax 02 9910 6201

customerservice@envirolab.com.au

www.envirolab.com.au

CERTIFICATE OF ANALYSIS 292672

Client Details

Client	Safe Work & Environments
Attention	Rune Knoph
Address	7/103 Majors Bay Rd, Concord, NSW, 2137

Sample Details

Your Reference	S110506
Number of Samples	25 Soil
Date samples received	05/04/2022
Date completed instructions received	05/04/2022

Analysis Details

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

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

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

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	06/04/2022
Date of Issue	06/04/2022

NATA Accreditation Number 2901. This document shall not be reproduced except in full.

Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By

Dragana Tomas, Senior Chemist
Giovanni Agosti, Group Technical Manager
Josh Williams, Organics and LC Supervisor
Liam Timmins, Chemist
Thomas Beenie, Lab Technician

Authorised By

Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		292672-1	292672-2	292672-3	292672-4	292672-5
Your Reference	UNITS	S110506/S01	S110506/S02	S110506/S03	S110506/S04	S110506/S05
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
TRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRH C ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	112	114	109	110	111

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		292672-6	292672-7	292672-8	292672-9	292672-10
Your Reference	UNITS	S110506/S06	S110506/S07	S110506/S08	S110506/S09	S110506/S10
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
TRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRH C ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	109	110	110	109	105

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		292672-11	292672-12	292672-13	292672-14	292672-15
Your Reference	UNITS	S110506/S11	S110506/S12	S110506/S13	S110506/S14	S110506/S15
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
TRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRH C ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	115	113	107	106	104

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		292672-16	292672-17	292672-18	292672-19	292672-20
Your Reference	UNITS	S110506/S16	S110506/S17	S110506/S18	S110506/S19	S110506/S20
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
TRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRH C ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	109	125	113	120	110

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		292672-21	292672-22	292672-23	292672-24	292672-25
Your Reference	UNITS	S110506/S21	S110506/S22	S110506/S23	S110506/S24	S110506/S25
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
TRH C ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
TRH C ₆ - C ₁₀	mg/kg	<25	<25	<25	<25	<25
vTPH C ₆ - C ₁₀ less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	111	113	114	123	123

svTRH (C10-C40) in Soil						
Our Reference		292672-1	292672-2	292672-3	292672-4	292672-5
Your Reference	UNITS	S110506/S01	S110506/S02	S110506/S03	S110506/S04	S110506/S05
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	140	<100	140	<100	<100
TRH C ₂₉ - C ₃₆	mg/kg	190	<100	250	<100	<100
Total +ve TRH (C10-C36)	mg/kg	340	<50	400	<50	<50
TRH >C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₆ -C ₃₄	mg/kg	290	<100	340	120	110
TRH >C ₃₄ -C ₄₀	mg/kg	160	<100	180	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	440	<50	520	120	110
Surrogate o-Terphenyl	%	96	86	84	97	94

svTRH (C10-C40) in Soil						
Our Reference		292672-6	292672-7	292672-8	292672-9	292672-10
Your Reference	UNITS	S110506/S06	S110506/S07	S110506/S08	S110506/S09	S110506/S10
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	<100	<100
TRH >C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	85	85	82	83	82

svTRH (C10-C40) in Soil						
Our Reference		292672-11	292672-12	292672-13	292672-14	292672-15
Your Reference	UNITS	S110506/S11	S110506/S12	S110506/S13	S110506/S14	S110506/S15
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	mg/kg	<100	110	<100	<100	120
Total +ve TRH (C10-C36)	mg/kg	<50	110	<50	<50	120
TRH >C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C ₁₆ -C ₃₄	mg/kg	<100	140	120	<100	140
TRH >C ₃₄ -C ₄₀	mg/kg	<100	100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	240	120	<50	140
Surrogate o-Terphenyl	%	91	87	86	86	87

svTRH (C10-C40) in Soil						
Our Reference		292672-16	292672-17	292672-18	292672-19	292672-20
Your Reference	UNITS	S110506/S16	S110506/S17	S110506/S18	S110506/S19	S110506/S20
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	100
TRH C ₁₅ - C ₂₈	mg/kg	<100	<100	<100	140	560
TRH C ₂₉ - C ₃₆	mg/kg	<100	<100	<100	220	790
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	360	1,500
TRH >C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	200
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	200
TRH >C ₁₆ -C ₃₄	mg/kg	<100	<100	<100	260	960
TRH >C ₃₄ -C ₄₀	mg/kg	<100	<100	<100	170	580
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	430	1,700
Surrogate o-Terphenyl	%	94	94	91	106	#

svTRH (C10-C40) in Soil						
Our Reference		292672-21	292672-22	292672-23	292672-24	292672-25
Your Reference	UNITS	S110506/S21	S110506/S22	S110506/S23	S110506/S24	S110506/S25
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
TRH C ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	mg/kg	500	920	140	850	1,300
TRH C ₂₉ - C ₃₆	mg/kg	500	960	170	760	1,300
Total +ve TRH (C10-C36)	mg/kg	1,000	1,900	320	1,600	2,600
TRH >C ₁₀ -C ₁₆	mg/kg	<50	<50	<50	<50	64
TRH >C ₁₀ - C ₁₆ less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	64
TRH >C ₁₆ -C ₃₄	mg/kg	900	1,700	270	1,500	2,400
TRH >C ₃₄ -C ₄₀	mg/kg	270	480	120	360	650
Total +ve TRH (>C10-C40)	mg/kg	1,200	2,200	390	1,800	3,100
Surrogate o-Terphenyl	%	126	#	98	122	135

PAHs in Soil						
Our Reference		292672-1	292672-2	292672-3	292672-4	292672-5
Your Reference	UNITS	S110506/S01	S110506/S02	S110506/S03	S110506/S04	S110506/S05
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.6	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	0.4	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	2.2	0.2	0.3	0.3	0.2
Pyrene	mg/kg	2.5	0.2	0.3	0.3	0.2
Benzo(a)anthracene	mg/kg	1.6	0.2	0.2	0.3	0.2
Chrysene	mg/kg	1.1	0.1	0.1	0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	3.3	0.4	0.4	0.5	0.3
Benzo(a)pyrene	mg/kg	2.2	0.3	0.3	0.3	0.2
Indeno(1,2,3-c,d)pyrene	mg/kg	1.3	0.2	0.2	0.2	0.1
Dibenzo(a,h)anthracene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	2.2	0.3	0.3	0.4	0.2
Total +ve PAH's	mg/kg	18	2.0	1.9	2.4	1.5
Benzo(a)pyrene TEQ calc (zero)	mg/kg	3.2	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	3.2	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	3.2	<0.5	<0.5	0.5	<0.5
Surrogate <i>p</i> -Terphenyl-d14	%	98	82	93	103	99

PAHs in Soil						
Our Reference		292672-6	292672-7	292672-8	292672-9	292672-10
Your Reference	UNITS	S110506/S06	S110506/S07	S110506/S08	S110506/S09	S110506/S10
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<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
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	0.1	<0.05	0.08
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	0.4	<0.05	0.2
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate <i>p</i> -Terphenyl-d14	%	94	82	84	85	85

PAHs in Soil						
Our Reference		292672-11	292672-12	292672-13	292672-14	292672-15
Your Reference	UNITS	S110506/S11	S110506/S12	S110506/S13	S110506/S14	S110506/S15
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	0.1	0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.2	0.2	0.2	0.2	0.1
Pyrene	mg/kg	0.3	0.3	0.2	0.2	0.1
Benzo(a)anthracene	mg/kg	0.2	0.2	0.1	0.2	0.1
Chrysene	mg/kg	0.2	0.1	0.1	0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	0.5	0.5	0.3	0.4	0.3
Benzo(a)pyrene	mg/kg	0.3	0.4	0.2	0.2	0.1
Indeno(1,2,3-c,d)pyrene	mg/kg	0.2	0.2	0.1	0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.3	0.3	0.2	0.2	0.1
Total +ve PAH's	mg/kg	2.2	2.4	1.6	1.4	0.93
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	0.5	0.6	<0.5	<0.5	<0.5
Surrogate <i>p</i> -Terphenyl-d14	%	101	89	86	85	88

PAHs in Soil						
Our Reference		292672-16	292672-17	292672-18	292672-19	292672-20
Your Reference	UNITS	S110506/S16	S110506/S17	S110506/S18	S110506/S19	S110506/S20
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	0.1	<0.1	<0.1	0.2
Pyrene	mg/kg	<0.1	0.1	<0.1	<0.1	0.2
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	0.09	<0.05	<0.05	0.1
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	0.3	<0.05	<0.05	0.68
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate <i>p</i> -Terphenyl-d14	%	98	95	94	93	94

PAHs in Soil						
Our Reference		292672-21	292672-22	292672-23	292672-24	292672-25
Your Reference	UNITS	S110506/S21	S110506/S22	S110506/S23	S110506/S24	S110506/S25
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<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
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05	0.1
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Surrogate <i>p</i> -Terphenyl-d14	%	91	94	96	94	94

Organochlorine Pesticides in soil						
Our Reference		292672-1	292672-2	292672-3	292672-4	292672-5
Your Reference	UNITS	S110506/S01	S110506/S02	S110506/S03	S110506/S04	S110506/S05
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	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
gamma-BHC	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
delta-BHC	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
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
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
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	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
pp-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
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	105	87	99	102	99

Organochlorine Pesticides in soil						
Our Reference		292672-6	292672-7	292672-8	292672-9	292672-10
Your Reference	UNITS	S110506/S06	S110506/S07	S110506/S08	S110506/S09	S110506/S10
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	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
gamma-BHC	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
delta-BHC	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
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
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
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	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
pp-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
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	100	92	94	88	97

Organochlorine Pesticides in soil						
Our Reference		292672-11	292672-12	292672-13	292672-14	292672-15
Your Reference	UNITS	S110506/S11	S110506/S12	S110506/S13	S110506/S14	S110506/S15
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	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
gamma-BHC	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
delta-BHC	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
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
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
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	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
pp-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
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	103	96	95	92	94

Organochlorine Pesticides in soil						
Our Reference		292672-16	292672-17	292672-18	292672-19	292672-20
Your Reference	UNITS	S110506/S16	S110506/S17	S110506/S18	S110506/S19	S110506/S20
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	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
gamma-BHC	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
delta-BHC	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
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
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
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	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
pp-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
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	102	97	99	96	98

Organochlorine Pesticides in soil						
Our Reference		292672-21	292672-22	292672-23	292672-24	292672-25
Your Reference	UNITS	S110506/S21	S110506/S22	S110506/S23	S110506/S24	S110506/S25
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
HCB	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
gamma-BHC	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
delta-BHC	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
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
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
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	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
pp-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
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	94	97	102	98	99

Organophosphorus Pesticides in Soil						
Our Reference		292672-1	292672-2	292672-3	292672-4	292672-5
Your Reference	UNITS	S110506/S01	S110506/S02	S110506/S03	S110506/S04	S110506/S05
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	105	87	99	102	99

Organophosphorus Pesticides in Soil						
Our Reference		292672-6	292672-7	292672-8	292672-9	292672-10
Your Reference	UNITS	S110506/S06	S110506/S07	S110506/S08	S110506/S09	S110506/S10
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	100	92	94	88	97

Organophosphorus Pesticides in Soil						
Our Reference		292672-11	292672-12	292672-13	292672-14	292672-15
Your Reference	UNITS	S110506/S11	S110506/S12	S110506/S13	S110506/S14	S110506/S15
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	103	96	95	92	94

Organophosphorus Pesticides in Soil						
Our Reference		292672-16	292672-17	292672-18	292672-19	292672-20
Your Reference	UNITS	S110506/S16	S110506/S17	S110506/S18	S110506/S19	S110506/S20
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	102	97	99	96	98

Organophosphorus Pesticides in Soil						
Our Reference		292672-21	292672-22	292672-23	292672-24	292672-25
Your Reference	UNITS	S110506/S21	S110506/S22	S110506/S23	S110506/S24	S110506/S25
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Dichlorvos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Malathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Parathion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Azinphos-methyl (Guthion)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	94	97	102	98	99

PCBs in Soil						
Our Reference		292672-1	292672-2	292672-3	292672-4	292672-5
Your Reference	UNITS	S110506/S01	S110506/S02	S110506/S03	S110506/S04	S110506/S05
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	105	87	99	102	99

PCBs in Soil						
Our Reference		292672-6	292672-7	292672-8	292672-9	292672-10
Your Reference	UNITS	S110506/S06	S110506/S07	S110506/S08	S110506/S09	S110506/S10
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	100	92	94	88	97

PCBs in Soil						
Our Reference		292672-11	292672-12	292672-13	292672-14	292672-15
Your Reference	UNITS	S110506/S11	S110506/S12	S110506/S13	S110506/S14	S110506/S15
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	103	96	95	92	94

PCBs in Soil						
Our Reference		292672-16	292672-17	292672-18	292672-19	292672-20
Your Reference	UNITS	S110506/S16	S110506/S17	S110506/S18	S110506/S19	S110506/S20
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	102	97	99	96	98

PCBs in Soil						
Our Reference		292672-21	292672-22	292672-23	292672-24	292672-25
Your Reference	UNITS	S110506/S21	S110506/S22	S110506/S23	S110506/S24	S110506/S25
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	94	97	102	98	99

Acid Extractable metals in soil						
Our Reference		292672-1	292672-2	292672-3	292672-4	292672-5
Your Reference	UNITS	S110506/S01	S110506/S02	S110506/S03	S110506/S04	S110506/S05
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Date analysed	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Arsenic	mg/kg	16	<4	7	13	7
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	23	7	15	22	32
Copper	mg/kg	40	31	27	44	35
Lead	mg/kg	24	19	16	19	33
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	22	23	19	23	17
Zinc	mg/kg	74	72	71	75	59

Acid Extractable metals in soil						
Our Reference		292672-6	292672-7	292672-8	292672-9	292672-10
Your Reference	UNITS	S110506/S06	S110506/S07	S110506/S08	S110506/S09	S110506/S10
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Date analysed	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Arsenic	mg/kg	<4	<4	7	9	7
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	5	4	19	25	20
Copper	mg/kg	17	15	42	34	47
Lead	mg/kg	13	17	37	51	14
Mercury	mg/kg	<0.1	<0.1	<0.1	0.2	<0.1
Nickel	mg/kg	3	4	24	14	37
Zinc	mg/kg	29	8	72	360	84

Acid Extractable metals in soil						
Our Reference		292672-11	292672-12	292672-13	292672-14	292672-15
Your Reference	UNITS	S110506/S11	S110506/S12	S110506/S13	S110506/S14	S110506/S15
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Date analysed	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Arsenic	mg/kg	14	14	17	33	49
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	0.5
Chromium	mg/kg	27	19	24	50	93
Copper	mg/kg	37	39	43	62	86
Lead	mg/kg	27	16	18	42	63
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	15	25	21	25	28
Zinc	mg/kg	180	54	65	270	3,000

Acid Extractable metals in soil						
Our Reference		292672-16	292672-17	292672-18	292672-19	292672-20
Your Reference	UNITS	S110506/S16	S110506/S17	S110506/S18	S110506/S19	S110506/S20
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Date analysed	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Arsenic	mg/kg	37	26	9	96	90
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	34	36	32	110	360
Copper	mg/kg	56	58	21	80	190
Lead	mg/kg	25	28	9	21	30
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	24	41	28	20	15
Zinc	mg/kg	170	190	50	270	150

Acid Extractable metals in soil						
Our Reference		292672-21	292672-22	292672-23	292672-24	292672-25
Your Reference	UNITS	S110506/S21	S110506/S22	S110506/S23	S110506/S24	S110506/S25
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Date analysed	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Arsenic	mg/kg	19	58	10	13	16
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	26	24	26	27	26
Copper	mg/kg	37	52	19	32	150
Lead	mg/kg	96	220	48	63	630
Mercury	mg/kg	0.1	0.2	0.1	<0.1	<0.1
Nickel	mg/kg	15	15	7	13	26
Zinc	mg/kg	150	240	76	110	220

Client Reference: S110506

Moisture						
Our Reference		292672-1	292672-2	292672-3	292672-4	292672-5
Your Reference	UNITS	S110506/S01	S110506/S02	S110506/S03	S110506/S04	S110506/S05
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Moisture	%	14	18	16	14	11

Moisture						
Our Reference		292672-6	292672-7	292672-8	292672-9	292672-10
Your Reference	UNITS	S110506/S06	S110506/S07	S110506/S08	S110506/S09	S110506/S10
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Moisture	%	17	20	14	15	13

Moisture						
Our Reference		292672-11	292672-12	292672-13	292672-14	292672-15
Your Reference	UNITS	S110506/S11	S110506/S12	S110506/S13	S110506/S14	S110506/S15
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Moisture	%	14	4.8	3.5	24	29

Moisture						
Our Reference		292672-16	292672-17	292672-18	292672-19	292672-20
Your Reference	UNITS	S110506/S16	S110506/S17	S110506/S18	S110506/S19	S110506/S20
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Moisture	%	16	13	16	9.7	27

Client Reference: S110506

Moisture						
Our Reference		292672-21	292672-22	292672-23	292672-24	292672-25
Your Reference	UNITS	S110506/S21	S110506/S22	S110506/S23	S110506/S24	S110506/S25
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Date analysed	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Moisture	%	17	13	18	12	8.5

Metals from Leaching Fluid pH 2.9 or 5						
Our Reference		292672-1	292672-2	292672-3	292672-4	292672-5
Your Reference	UNITS	S110506/S01	S110506/S02	S110506/S03	S110506/S04	S110506/S05
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Date analysed	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
pH of soil for fluid# determ.	pH units	9.2	9.2	8.9	8.9	9.6
pH of soil TCLP (after HCl)	pH units	1.6	1.6	1.6	1.6	1.6
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	5.2	5.0	5.2	5.1	5.5
Arsenic	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Cadmium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Lead	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03
Mercury	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel	mg/L	<0.02	<0.02	0.03	0.02	<0.02

Metals from Leaching Fluid pH 2.9 or 5						
Our Reference		292672-6	292672-7	292672-8	292672-9	292672-10
Your Reference	UNITS	S110506/S06	S110506/S07	S110506/S08	S110506/S09	S110506/S10
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Date analysed	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
pH of soil for fluid# determ.	pH units	9.3	9.1	9.5	9.0	9.4
pH of soil TCLP (after HCl)	pH units	1.6	1.6	1.6	1.6	1.6
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	5.0	4.9	5.1	5.0	5.2
Arsenic	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Cadmium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Lead	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03
Mercury	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel	mg/L	<0.02	<0.02	<0.02	0.02	0.09

Metals from Leaching Fluid pH 2.9 or 5						
Our Reference		292672-11	292672-12	292672-13	292672-14	292672-15
Your Reference	UNITS	S110506/S11	S110506/S12	S110506/S13	S110506/S14	S110506/S15
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Date analysed	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
pH of soil for fluid# determ.	pH units	9.1	9.1	9.1	9.0	9.0
pH of soil TCLP (after HCl)	pH units	1.6	1.6	1.6	1.6	1.6
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	6.1	5.4	5.4	5.3	5.0
Arsenic	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Cadmium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Lead	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03
Mercury	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02

Metals from Leaching Fluid pH 2.9 or 5						
Our Reference		292672-16	292672-17	292672-18	292672-19	292672-20
Your Reference	UNITS	S110506/S16	S110506/S17	S110506/S18	S110506/S19	S110506/S20
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Date analysed	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
pH of soil for fluid# determ.	pH units	8.8	9.0	9.2	8.6	8.7
pH of soil TCLP (after HCl)	pH units	1.6	1.6	1.6	1.6	1.6
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	5.1	5.2	5.1	5.0	5.1
Arsenic	mg/L	<0.05	<0.05	<0.05	0.1	<0.05
Cadmium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	mg/L	<0.01	<0.01	<0.01	0.02	0.02
Lead	mg/L	<0.03	<0.03	0.04	<0.03	<0.03
Mercury	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel	mg/L	<0.02	0.03	<0.02	<0.02	<0.02

Metals from Leaching Fluid pH 2.9 or 5						
Our Reference		292672-21	292672-22	292672-23	292672-24	292672-25
Your Reference	UNITS	S110506/S21	S110506/S22	S110506/S23	S110506/S24	S110506/S25
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Date analysed	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
pH of soil for fluid# determ.	pH units	8.5	8.5	8.7	8.6	8.7
pH of soil TCLP (after HCl)	pH units	1.6	1.6	1.6	1.6	1.6
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	5.1	5.1	5.1	5.3	5.2
Arsenic	mg/L	<0.05	0.06	<0.05	<0.05	<0.05
Cadmium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Lead	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03
Mercury	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02

PAHs in TCLP (USEPA 1311)						
Our Reference		292672-1	292672-2	292672-3	292672-4	292672-5
Your Reference	UNITS	S110506/S01	S110506/S02	S110506/S03	S110506/S04	S110506/S05
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Date analysed	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Naphthalene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Acenaphthylene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Acenaphthene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Fluorene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Phenanthrene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Anthracene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Fluoranthene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Pyrene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Benzo(a)anthracene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Chrysene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Benzo(bjk)fluoranthene in TCLP	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002
Benzo(a)pyrene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Dibenzo(a,h)anthracene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Benzo(g,h,i)perylene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Total +ve PAH's	mg/L	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE
Surrogate p-Terphenyl-d14	%	89	89	86	76	75

PAHs in TCLP (USEPA 1311)						
Our Reference		292672-6	292672-7	292672-8	292672-9	292672-10
Your Reference	UNITS	S110506/S06	S110506/S07	S110506/S08	S110506/S09	S110506/S10
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Date analysed	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Naphthalene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Acenaphthylene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Acenaphthene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Fluorene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Phenanthrene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Anthracene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Fluoranthene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Pyrene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Benzo(a)anthracene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Chrysene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Benzo(bjk)fluoranthene in TCLP	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002
Benzo(a)pyrene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Dibenzo(a,h)anthracene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Benzo(g,h,i)perylene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Total +ve PAH's	mg/L	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE
Surrogate <i>p</i> -Terphenyl-d14	%	85	84	87	87	87

PAHs in TCLP (USEPA 1311)						
Our Reference		292672-11	292672-12	292672-13	292672-14	292672-15
Your Reference	UNITS	S110506/S11	S110506/S12	S110506/S13	S110506/S14	S110506/S15
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Date analysed	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Naphthalene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Acenaphthylene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Acenaphthene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Fluorene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Phenanthrene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Anthracene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Fluoranthene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Pyrene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Benzo(a)anthracene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Chrysene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Benzo(bjk)fluoranthene in TCLP	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002
Benzo(a)pyrene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Dibenzo(a,h)anthracene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Benzo(g,h,i)perylene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Total +ve PAH's	mg/L	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE
Surrogate <i>p</i> -Terphenyl-d14	%	88	82	91	90	85

PAHs in TCLP (USEPA 1311)						
Our Reference		292672-16	292672-17	292672-18	292672-19	292672-20
Your Reference	UNITS	S110506/S16	S110506/S17	S110506/S18	S110506/S19	S110506/S20
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Date analysed	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Naphthalene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Acenaphthylene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Acenaphthene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Fluorene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Phenanthrene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Anthracene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Fluoranthene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Pyrene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Benzo(a)anthracene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Chrysene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Benzo(bjk)fluoranthene in TCLP	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002
Benzo(a)pyrene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Dibenzo(a,h)anthracene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Benzo(g,h,i)perylene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Total +ve PAH's	mg/L	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE
Surrogate <i>p</i> -Terphenyl-d14	%	81	84	85	87	75

PAHs in TCLP (USEPA 1311)						
Our Reference		292672-21	292672-22	292672-23	292672-24	292672-25
Your Reference	UNITS	S110506/S21	S110506/S22	S110506/S23	S110506/S24	S110506/S25
Depth		0.2	0.2	0.2	0.2	0.2
Date Sampled		05/04/2022	05/04/2022	05/04/2022	05/04/2022	05/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Date analysed	-	06/04/2022	06/04/2022	06/04/2022	06/04/2022	06/04/2022
Naphthalene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Acenaphthylene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Acenaphthene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Fluorene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Phenanthrene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Anthracene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Fluoranthene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Pyrene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Benzo(a)anthracene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Chrysene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Benzo(bjk)fluoranthene in TCLP	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002
Benzo(a)pyrene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Dibenzo(a,h)anthracene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Benzo(g,h,i)perylene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Total +ve PAH's	mg/L	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE	NIL (+)VE
Surrogate <i>p</i> -Terphenyl-d14	%	97	100	93	80	85

Method ID	Methodology Summary
INORG-004	Toxicity Characteristic Leaching Procedure (TCLP) using Zero Headspace Extraction (zHE) using AS4439 and USEPA 1311.
Inorg-004	Toxicity Characteristic Leaching Procedure (TCLP) using AS 4439 and USEPA 1311. Please note that the mass used may be scaled down from default based on sample mass available. Samples are stored at 2-6oC before and after leachate preparation.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES.
Metals-020	Determination of various metals by ICP-AES following buffer determination as per USEPA 1311 and hence AS 4439.3. Extraction Fluid 1 refers to the pH 5.0 buffer and Extraction Fluid 2 is the pH 2.9 buffer.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-021	Determination of Mercury by Cold Vapour AAS following buffer determination as per USEPA 1311 and hence AS 4439.3. Extraction Fluid 1 refers to the pH 5.0 buffer and Extraction Fluid 2 is the pH 2.9 buffer.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.

Method ID	Methodology Summary
Org-022	Determination of VOCs sampled onto coconut shell charcoal sorbent tubes, that can be desorbed using carbon disulphide, and analysed by GC-MS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
Org-022/025	Leachates are extracted with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL' values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero' values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL' values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

Client Reference: S110506

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	292672-2
Date extracted	-			05/04/2022	1	05/04/2022	05/04/2022		05/04/2022	05/04/2022
Date analysed	-			05/04/2022	1	05/04/2022	05/04/2022		05/04/2022	05/04/2022
TRH C ₆ - C ₉	mg/kg	25	Org-023	<25	1	<25	<25	0	98	94
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	<25	1	<25	<25	0	98	94
Benzene	mg/kg	0.2	Org-023	<0.2	1	<0.2	<0.2	0	105	101
Toluene	mg/kg	0.5	Org-023	<0.5	1	<0.5	<0.5	0	96	92
Ethylbenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	95	91
m+p-xylene	mg/kg	2	Org-023	<2	1	<2	<2	0	96	92
o-Xylene	mg/kg	1	Org-023	<1	1	<1	<1	0	102	97
Naphthalene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	120	1	112	115	3	114	109

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	292672-22
Date extracted	-			[NT]	11	05/04/2022	05/04/2022		05/04/2022	05/04/2022
Date analysed	-			[NT]	11	05/04/2022	05/04/2022		05/04/2022	05/04/2022
TRH C ₆ - C ₉	mg/kg	25	Org-023	[NT]	11	<25	<25	0	100	98
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	[NT]	11	<25	<25	0	100	98
Benzene	mg/kg	0.2	Org-023	[NT]	11	<0.2	<0.2	0	112	109
Toluene	mg/kg	0.5	Org-023	[NT]	11	<0.5	<0.5	0	119	115
Ethylbenzene	mg/kg	1	Org-023	[NT]	11	<1	<1	0	89	87
m+p-xylene	mg/kg	2	Org-023	[NT]	11	<2	<2	0	91	90
o-Xylene	mg/kg	1	Org-023	[NT]	11	<1	<1	0	93	93
Naphthalene	mg/kg	1	Org-023	[NT]	11	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	11	115	108	6	108	123

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	21	05/04/2022	05/04/2022		[NT]	[NT]
Date analysed	-			[NT]	21	05/04/2022	05/04/2022		[NT]	[NT]
TRH C ₆ - C ₉	mg/kg	25	Org-023	[NT]	21	<25	<25	0	[NT]	[NT]
TRH C ₆ - C ₁₀	mg/kg	25	Org-023	[NT]	21	<25	<25	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	[NT]	21	<0.2	<0.2	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	[NT]	21	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	1	Org-023	[NT]	21	<1	<1	0	[NT]	[NT]
m+p-xylene	mg/kg	2	Org-023	[NT]	21	<2	<2	0	[NT]	[NT]
o-Xylene	mg/kg	1	Org-023	[NT]	21	<1	<1	0	[NT]	[NT]
Naphthalene	mg/kg	1	Org-023	[NT]	21	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	[NT]	21	111	109	2	[NT]	[NT]

Client Reference: S110506

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	292672-2
Date extracted	-			05/04/2022	1	05/04/2022	05/04/2022		05/04/2022	05/04/2022
Date analysed	-			06/04/2022	1	06/04/2022	06/04/2022		06/04/2022	06/04/2022
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	<50	1	<50	<50	0	97	97
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	<100	1	140	110	24	91	108
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	<100	1	190	160	17	121	125
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	<50	1	<50	<50	0	97	97
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	<100	1	290	220	27	91	108
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	<100	1	160	140	13	121	125
Surrogate o-Terphenyl	%		Org-020	92	1	96	96	0	88	84

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	292672-22
Date extracted	-			[NT]	11	05/04/2022	05/04/2022		05/04/2022	05/04/2022
Date analysed	-			[NT]	11	06/04/2022	06/04/2022		06/04/2022	06/04/2022
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	[NT]	11	<50	<50	0	103	99
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	[NT]	11	<100	<100	0	97	#
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	[NT]	11	<100	<100	0	121	#
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	[NT]	11	<50	<50	0	103	99
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	[NT]	11	<100	<100	0	97	#
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	[NT]	11	<100	<100	0	121	#
Surrogate o-Terphenyl	%		Org-020	[NT]	11	91	97	6	90	86

QUALITY CONTROL: svTRH (C10-C40) in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	21	05/04/2022	05/04/2022		[NT]	[NT]
Date analysed	-			[NT]	21	06/04/2022	06/04/2022		[NT]	[NT]
TRH C ₁₀ - C ₁₄	mg/kg	50	Org-020	[NT]	21	<50	<50	0	[NT]	[NT]
TRH C ₁₅ - C ₂₈	mg/kg	100	Org-020	[NT]	21	500	540	8	[NT]	[NT]
TRH C ₂₉ - C ₃₆	mg/kg	100	Org-020	[NT]	21	500	500	0	[NT]	[NT]
TRH >C ₁₀ -C ₁₆	mg/kg	50	Org-020	[NT]	21	<50	<50	0	[NT]	[NT]
TRH >C ₁₆ -C ₃₄	mg/kg	100	Org-020	[NT]	21	900	940	4	[NT]	[NT]
TRH >C ₃₄ -C ₄₀	mg/kg	100	Org-020	[NT]	21	270	260	4	[NT]	[NT]
Surrogate o-Terphenyl	%		Org-020	[NT]	21	126	112	12	[NT]	[NT]

Client Reference: S110506

QUALITY CONTROL: PAHs in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	292672-2
Date extracted	-			05/04/2022	1	05/04/2022	05/04/2022		05/04/2022	05/04/2022
Date analysed	-			05/04/2022	1	05/04/2022	05/04/2022		05/04/2022	05/04/2022
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	93	113
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	1	0.2	0.2	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	101	107
Fluorene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	105	111
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	1	0.6	0.6	0	104	122
Anthracene	mg/kg	0.1	Org-022/025	<0.1	1	0.4	0.4	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	1	2.2	1.6	32	84	88
Pyrene	mg/kg	0.1	Org-022/025	<0.1	1	2.5	1.7	38	87	94
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	1.6	1.3	21	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	1	1.1	0.7	44	81	101
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	1	3.3	2.3	36	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	1	2.2	1.6	32	104	113
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	1	1.3	1	26	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	0.2	0.2	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	1	2.2	1.7	26	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	101	1	98	107	9	96	94

QUALITY CONTROL: PAHs in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	292672-22
Date extracted	-			[NT]	11	05/04/2022	05/04/2022		05/04/2022	05/04/2022
Date analysed	-			[NT]	11	05/04/2022	05/04/2022		05/04/2022	05/04/2022
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	97	96
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	97	97
Fluorene	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	111	109
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	0.2	67	102	103
Anthracene	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	11	0.2	0.5	86	104	102
Pyrene	mg/kg	0.1	Org-022/025	[NT]	11	0.3	0.5	50	111	111
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	11	0.2	0.4	67	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	11	0.2	0.2	0	99	95
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	11	0.5	0.7	33	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	11	0.3	0.4	29	104	116
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	11	0.2	0.3	40	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	11	0.3	0.4	29	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	11	101	99	2	99	92

QUALITY CONTROL: PAHs in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	21	05/04/2022	05/04/2022		[NT]	[NT]
Date analysed	-			[NT]	21	05/04/2022	05/04/2022		[NT]	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Anthracene	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Pyrene	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	[NT]	21	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	[NT]	21	<0.05	<0.05	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	21	91	95	4	[NT]	[NT]

Client Reference: S110506

QUALITY CONTROL: Organochlorine Pesticides in soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	292672-2
Date extracted	-			05/04/2022	1	05/04/2022	05/04/2022		05/04/2022	05/04/2022
Date analysed	-			05/04/2022	1	05/04/2022	05/04/2022		05/04/2022	05/04/2022
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	98	102
HCB	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	96	99
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	95	111
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	101	116
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	102	116
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	90	103
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	84	94
Endrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	90	100
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	96	106
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	86	94
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	106	1	105	107	2	100	97

Client Reference: S110506

QUALITY CONTROL: Organochlorine Pesticides in soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	292672-22
Date extracted	-			[NT]	11	05/04/2022	05/04/2022		05/04/2022	05/04/2022
Date analysed	-			[NT]	11	05/04/2022	05/04/2022		05/04/2022	05/04/2022
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	96	92
HCB	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	99	92
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	99	97
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	107	101
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	106	100
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	98	101
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	106	104
Endrin	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	109	113
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	104	106
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	100	100
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	11	103	106	3	102	95

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	21	05/04/2022	05/04/2022		[NT]	[NT]
Date analysed	-			[NT]	21	05/04/2022	05/04/2022		[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
HCB	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	21	94	100	6	[NT]	[NT]

Client Reference: S110506

QUALITY CONTROL: Organophosphorus Pesticides in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	292672-2
Date extracted	-			05/04/2022	1	05/04/2022	05/04/2022		05/04/2022	05/04/2022
Date analysed	-			05/04/2022	1	05/04/2022	05/04/2022		05/04/2022	05/04/2022
Dichlorvos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	117	131
Dimethoate	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	95	106
Fenitrothion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	119	125
Malathion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	108	118
Chlorpyrifos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	112	124
Parathion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	107	115
Bromophos-ethyl	mg/kg	0.1	Org-022	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	119	130
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	106	1	105	107	2	100	97

QUALITY CONTROL: Organophosphorus Pesticides in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	292672-22
Date extracted	-			[NT]	11	05/04/2022	05/04/2022		05/04/2022	05/04/2022
Date analysed	-			[NT]	11	05/04/2022	05/04/2022		05/04/2022	05/04/2022
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	111	128
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos-methyl	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	97	95
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	115	136
Malathion	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	119	134
Chlorpyrifos	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	112	112
Parathion	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	105	129
Bromophos-ethyl	mg/kg	0.1	Org-022	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	111	129
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	11	103	106	3	102	95

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QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	21	05/04/2022	05/04/2022		[NT]	[NT]
Date analysed	-			[NT]	21	05/04/2022	05/04/2022		[NT]	[NT]
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Dimethoate	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Diazinon	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Chlorpyriphos-methyl	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Ronnel	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Malathion	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Chlorpyriphos	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Bromophos-ethyl	mg/kg	0.1	Org-022	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Ethion	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Azinphos-methyl (Guthion)	mg/kg	0.1	Org-022/025	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	21	94	100	6	[NT]	[NT]

Client Reference: S110506

QUALITY CONTROL: PCBs in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	292672-2
Date extracted	-			05/04/2022	1	05/04/2022	05/04/2022		05/04/2022	05/04/2022
Date analysed	-			05/04/2022	1	05/04/2022	05/04/2022		05/04/2022	05/04/2022
Aroclor 1016	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	90	100
Aroclor 1260	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	106	1	105	107	2	100	97

QUALITY CONTROL: PCBs in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	292672-22
Date extracted	-			[NT]	11	05/04/2022	05/04/2022		05/04/2022	05/04/2022
Date analysed	-			[NT]	11	05/04/2022	05/04/2022		05/04/2022	05/04/2022
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	11	<0.1	<0.1	0	110	100
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	11	103	106	3	102	95

QUALITY CONTROL: PCBs in Soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	21	05/04/2022	05/04/2022		[NT]	[NT]
Date analysed	-			[NT]	21	05/04/2022	05/04/2022		[NT]	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	21	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	21	94	100	6	[NT]	[NT]

Client Reference: S110506

QUALITY CONTROL: Acid Extractable metals in soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	292672-2
Date prepared	-			06/04/2022	1	06/04/2022	06/04/2022		06/04/2022	06/04/2022
Date analysed	-			06/04/2022	1	06/04/2022	06/04/2022		06/04/2022	06/04/2022
Arsenic	mg/kg	4	Metals-020	<4	1	16	11	37	104	95
Cadmium	mg/kg	0.4	Metals-020	<0.4	1	<0.4	<0.4	0	97	84
Chromium	mg/kg	1	Metals-020	<1	1	23	22	4	99	94
Copper	mg/kg	1	Metals-020	<1	1	40	43	7	100	119
Lead	mg/kg	1	Metals-020	<1	1	24	24	0	99	92
Mercury	mg/kg	0.1	Metals-021	<0.1	1	<0.1	<0.1	0	91	116
Nickel	mg/kg	1	Metals-020	<1	1	22	26	17	102	93
Zinc	mg/kg	1	Metals-020	<1	1	74	85	14	99	81

QUALITY CONTROL: Acid Extractable metals in soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-6	292672-22
Date prepared	-			[NT]	11	06/04/2022	06/04/2022		06/04/2022	06/04/2022
Date analysed	-			[NT]	11	06/04/2022	06/04/2022		06/04/2022	06/04/2022
Arsenic	mg/kg	4	Metals-020	[NT]	11	14	14	0	103	79
Cadmium	mg/kg	0.4	Metals-020	[NT]	11	<0.4	<0.4	0	97	73
Chromium	mg/kg	1	Metals-020	[NT]	11	27	23	16	99	82
Copper	mg/kg	1	Metals-020	[NT]	11	37	36	3	102	80
Lead	mg/kg	1	Metals-020	[NT]	11	27	24	12	99	#
Mercury	mg/kg	0.1	Metals-021	[NT]	11	<0.1	<0.1	0	89	102
Nickel	mg/kg	1	Metals-020	[NT]	11	15	14	7	101	75
Zinc	mg/kg	1	Metals-020	[NT]	11	180	180	0	98	#

QUALITY CONTROL: Acid Extractable metals in soil				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	21	06/04/2022	06/04/2022		[NT]	[NT]
Date analysed	-			[NT]	21	06/04/2022	06/04/2022		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	21	19	22	15	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	21	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	21	26	29	11	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	21	37	38	3	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	21	96	89	8	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	21	0.1	0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	21	15	13	14	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	21	150	150	0	[NT]	[NT]

Client Reference: S110506

QUALITY CONTROL: Metals from Leaching Fluid pH 2.9 or 5					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	292672-2
Date extracted	-			06/04/2022	3	06/04/2022	06/04/2022		06/04/2022	06/04/2022
Date analysed	-			06/04/2022	3	06/04/2022	06/04/2022		06/04/2022	06/04/2022
Arsenic	mg/L	0.05	Metals-020	<0.05	3	<0.05	<0.05	0	107	82
Cadmium	mg/L	0.01	Metals-020	<0.01	3	<0.01	<0.01	0	102	71
Chromium	mg/L	0.01	Metals-020	<0.01	3	<0.01	<0.01	0	104	72.5
Lead	mg/L	0.03	Metals-020	<0.03	3	<0.03	<0.03	0	106	77
Mercury	mg/L	0.0005	Metals-021	<0.0005	3	<0.0005	<0.0005	0	104	95
Nickel	mg/L	0.02	Metals-020	<0.02	3	0.03	<0.02	40	107	74

QUALITY CONTROL: Metals from Leaching Fluid pH 2.9 or 5					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	292672-22
Date extracted	-			[NT]	12	06/04/2022	06/04/2022		06/04/2022	06/04/2022
Date analysed	-			[NT]	12	06/04/2022	06/04/2022		06/04/2022	06/04/2022
Arsenic	mg/L	0.05	Metals-020	[NT]	12	<0.05	<0.05	0	105	94
Cadmium	mg/L	0.01	Metals-020	[NT]	12	<0.01	<0.01	0	99	78
Chromium	mg/L	0.01	Metals-020	[NT]	12	<0.01	<0.01	0	102	84.5
Lead	mg/L	0.03	Metals-020	[NT]	12	<0.03	<0.03	0	103	85.5
Mercury	mg/L	0.0005	Metals-021	[NT]	12	<0.0005	<0.0005	0	105	100
Nickel	mg/L	0.02	Metals-020	[NT]	12	<0.02	<0.02	0	105	84

QUALITY CONTROL: Metals from Leaching Fluid pH 2.9 or 5					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	21	06/04/2022	06/04/2022		[NT]	[NT]
Date analysed	-			[NT]	21	06/04/2022	06/04/2022		[NT]	[NT]
Arsenic	mg/L	0.05	Metals-020	[NT]	21	<0.05	<0.05	0	[NT]	[NT]
Cadmium	mg/L	0.01	Metals-020	[NT]	21	<0.01	<0.01	0	[NT]	[NT]
Chromium	mg/L	0.01	Metals-020	[NT]	21	<0.01	<0.01	0	[NT]	[NT]
Lead	mg/L	0.03	Metals-020	[NT]	21	<0.03	<0.03	0	[NT]	[NT]
Mercury	mg/L	0.0005	Metals-021	[NT]	21	<0.0005	<0.0005	0	[NT]	[NT]
Nickel	mg/L	0.02	Metals-020	[NT]	21	<0.02	<0.02	0	[NT]	[NT]

Client Reference: S110506

QUALITY CONTROL: PAHs in TCLP (USEPA 1311)				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	292672-2
Date extracted	-			06/04/2022	3	06/04/2022	06/04/2022		06/04/2022	06/04/2022
Date analysed	-			06/04/2022	3	06/04/2022	06/04/2022		06/04/2022	06/04/2022
Naphthalene in TCLP	mg/L	0.001	Org-022/025	<0.001	3	<0.001	<0.001	0	83	88
Acenaphthylene in TCLP	mg/L	0.001	Org-022/025	<0.001	3	<0.001	<0.001	0	[NT]	[NT]
Acenaphthene in TCLP	mg/L	0.001	Org-022/025	<0.001	3	<0.001	<0.001	0	77	83
Fluorene in TCLP	mg/L	0.001	Org-022/025	<0.001	3	<0.001	<0.001	0	81	85
Phenanthrene in TCLP	mg/L	0.001	Org-022/025	<0.001	3	<0.001	<0.001	0	84	91
Anthracene in TCLP	mg/L	0.001	Org-022/025	<0.001	3	<0.001	<0.001	0	[NT]	[NT]
Fluoranthene in TCLP	mg/L	0.001	Org-022/025	<0.001	3	<0.001	<0.001	0	80	87
Pyrene in TCLP	mg/L	0.001	Org-022/025	<0.001	3	<0.001	<0.001	0	84	89
Benzo(a)anthracene in TCLP	mg/L	0.001	Org-022/025	<0.001	3	<0.001	<0.001	0	[NT]	[NT]
Chrysene in TCLP	mg/L	0.001	Org-022/025	<0.001	3	<0.001	<0.001	0	75	81
Benzo(b)fluoranthene in TCLP	mg/L	0.002	Org-022/025	<0.002	3	<0.002	<0.002	0	[NT]	[NT]
Benzo(a)pyrene in TCLP	mg/L	0.001	Org-022/025	<0.001	3	<0.001	<0.001	0	94	96
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	0.001	Org-022/025	<0.001	3	<0.001	<0.001	0	[NT]	[NT]
Dibenzo(a,h)anthracene in TCLP	mg/L	0.001	Org-022/025	<0.001	3	<0.001	<0.001	0	[NT]	[NT]
Benzo(g,h,i)perylene in TCLP	mg/L	0.001	Org-022/025	<0.001	3	<0.001	<0.001	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	116	3	86	90	5	86	87

Client Reference: S110506

QUALITY CONTROL: PAHs in TCLP (USEPA 1311)				Duplicate			Spike Recovery %			
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	292672-22
Date extracted	-			[NT]	12	06/04/2022	06/04/2022		06/04/2022	06/04/2022
Date analysed	-			[NT]	12	06/04/2022	06/04/2022		06/04/2022	06/04/2022
Naphthalene in TCLP	mg/L	0.001	Org-022/025	[NT]	12	<0.001	<0.001	0	99	70
Acenaphthylene in TCLP	mg/L	0.001	Org-022/025	[NT]	12	<0.001	<0.001	0	[NT]	[NT]
Acenaphthene in TCLP	mg/L	0.001	Org-022/025	[NT]	12	<0.001	<0.001	0	99	69
Fluorene in TCLP	mg/L	0.001	Org-022/025	[NT]	12	<0.001	<0.001	0	99	69
Phenanthrene in TCLP	mg/L	0.001	Org-022/025	[NT]	12	<0.001	<0.001	0	106	75
Anthracene in TCLP	mg/L	0.001	Org-022/025	[NT]	12	<0.001	<0.001	0	[NT]	[NT]
Fluoranthene in TCLP	mg/L	0.001	Org-022/025	[NT]	12	<0.001	<0.001	0	104	70
Pyrene in TCLP	mg/L	0.001	Org-022/025	[NT]	12	<0.001	<0.001	0	107	74
Benzo(a)anthracene in TCLP	mg/L	0.001	Org-022/025	[NT]	12	<0.001	<0.001	0	[NT]	[NT]
Chrysene in TCLP	mg/L	0.001	Org-022/025	[NT]	12	<0.001	<0.001	0	93	78
Benzo(bjk)fluoranthene in TCLP	mg/L	0.002	Org-022/025	[NT]	12	<0.002	<0.002	0	[NT]	[NT]
Benzo(a)pyrene in TCLP	mg/L	0.001	Org-022/025	[NT]	12	<0.001	<0.001	0	100	82
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	0.001	Org-022/025	[NT]	12	<0.001	<0.001	0	[NT]	[NT]
Dibenzo(a,h)anthracene in TCLP	mg/L	0.001	Org-022/025	[NT]	12	<0.001	<0.001	0	[NT]	[NT]
Benzo(g,h,i)perylene in TCLP	mg/L	0.001	Org-022/025	[NT]	12	<0.001	<0.001	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	12	82	86	5	113	73

QUALITY CONTROL: PAHs in TCLP (USEPA 1311)				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	21	06/04/2022	06/04/2022		[NT]	[NT]
Date analysed	-			[NT]	21	06/04/2022	06/04/2022		[NT]	[NT]
Naphthalene in TCLP	mg/L	0.001	Org-022/025	[NT]	21	<0.001	<0.001	0	[NT]	[NT]
Acenaphthylene in TCLP	mg/L	0.001	Org-022/025	[NT]	21	<0.001	<0.001	0	[NT]	[NT]
Acenaphthene in TCLP	mg/L	0.001	Org-022/025	[NT]	21	<0.001	<0.001	0	[NT]	[NT]
Fluorene in TCLP	mg/L	0.001	Org-022/025	[NT]	21	<0.001	<0.001	0	[NT]	[NT]
Phenanthrene in TCLP	mg/L	0.001	Org-022/025	[NT]	21	<0.001	<0.001	0	[NT]	[NT]
Anthracene in TCLP	mg/L	0.001	Org-022/025	[NT]	21	<0.001	<0.001	0	[NT]	[NT]
Fluoranthene in TCLP	mg/L	0.001	Org-022/025	[NT]	21	<0.001	<0.001	0	[NT]	[NT]
Pyrene in TCLP	mg/L	0.001	Org-022/025	[NT]	21	<0.001	<0.001	0	[NT]	[NT]
Benzo(a)anthracene in TCLP	mg/L	0.001	Org-022/025	[NT]	21	<0.001	<0.001	0	[NT]	[NT]
Chrysene in TCLP	mg/L	0.001	Org-022/025	[NT]	21	<0.001	<0.001	0	[NT]	[NT]
Benzo(bjk)fluoranthene in TCLP	mg/L	0.002	Org-022/025	[NT]	21	<0.002	<0.002	0	[NT]	[NT]
Benzo(a)pyrene in TCLP	mg/L	0.001	Org-022/025	[NT]	21	<0.001	<0.001	0	[NT]	[NT]
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	0.001	Org-022/025	[NT]	21	<0.001	<0.001	0	[NT]	[NT]
Dibenzo(a,h)anthracene in TCLP	mg/L	0.001	Org-022/025	[NT]	21	<0.001	<0.001	0	[NT]	[NT]
Benzo(g,h,i)perylene in TCLP	mg/L	0.001	Org-022/025	[NT]	21	<0.001	<0.001	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	[NT]	21	97	98	1	[NT]	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

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

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

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

TRH Soil C10-C40 NEPM - # Percent recovery for the surrogate/matrix spike is not possible to report as the high concentration of analytes in samples 292672-20,22,22ms have caused interference.

8 metals in soil - # Percent recovery is not applicable due to the high concentration of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.

ATTACHMENT B – WASTE TABLE

S110506-FDC-WasteClass-SevenHills-050422

Safe Work and Environments Pty Ltd ABN 88127010995
7/103 Majors Bay Road, Concord, NSW 2137
Phone: 02 8757 3611 Fax: 02 8757 3612
Email: enquiries@swe.com.au

Appendix D

Certificate of Analysis - Asbestos Validations Samples

S110506-Validation Report - SYD09 Remediation Areas-L01

Safe Work and Environments Pty Ltd ABN 88127010995
7/103 Majors Bay Road, Concord NSW 2137
Phone: 02 8757 3611 Fax: 02 8757 3612
Email: enquiries@swe.com.au

26 April 2022

Attention: Chris Bignell
Company: FDC Construction (NSW) Pty Ltd
Fax/email: chrisbi@fdc.com.au
Address: 22-24 Junction Street, Forest Lodge NSW 2037
Client Reference: 57 Station Road, Seven Hills



WORLD RECOGNISED
 Accredited for compliance
 with ISO/IEC 17025 - Testing

SWE Report Reference: S110506.4
Date of Receipt: 22 April 2022
Sample Analysis Date: 26 April 2022
SWE Laboratory: Suite 15, 103 Majors Bay Road, Concord NSW 2137

NATA Accreditation No: 17092

Site Number: 18665

Asbestos Identification

1. Introduction: This report presents the result of 8 samples, collected by SWE on 22 April 2022 and analysed as received for the presence of asbestos. The collection of samples for analysis is not covered under the laboratory NATA Accreditation. The sampling reference location is not verified by Safe Work and Environments (SWE).

2. Methods: Samples are examined under a Stereo Microscope and selected fibres are analysed via Polarized Light Microscopy in conjunction with Dispersion Staining; in accordance with Australian Standard AS4964-2004 and SWE's In-House *ALM-Method 3 - Fibre Identification*.

3. Results:

SWE REF.	CLIENT REFERENCE	SAMPLE DESCRIPTION	ANALYTICAL RESULTS
S110506.4/A01	Soil	Grid TP55 – Sample 1	No Asbestos Detected Organic Fibre Detected Not Trace Asbestos Detected
S110506.4/A02	Soil	Grid TP55 – Sample 2	No Asbestos Detected Organic Fibre Detected Not Trace Asbestos Detected
S110506.4/A03	Soil	Grid TP55 – Sample 3	No Asbestos Detected Organic Fibre Detected Not Trace Asbestos Detected
S110506.4/A04	Soil	Grid TP55 – Sample 4	No Asbestos Detected Organic Fibre Detected Not Trace Asbestos Detected
S110506.4/A05	Soil	Grid TP55 – Sample 5	No Asbestos Detected Organic Fibre Detected Not Trace Asbestos Detected
S110506.4/A06	Soil	Grid TP55 – Sample 6	No Asbestos Detected Organic Fibre Detected Not Trace Asbestos Detected
S110506.4/A07	Soil	Grid TP55 – Sample 7	No Asbestos Detected Organic Fibre Detected Not Trace Asbestos Detected
S110506.4/A08	Soil	Grid TP55 – Sample 8	No Asbestos Detected Organic Fibre Detected Not Trace Asbestos Detected

S110506.4-FID-22042022

Analysed and reported by:



Rune Knoph
Approved Issuer of Report



Appendix E

Appendix E – Waste Disposal Tip Dockets

S110506-Validation Report - SYD09 Remediation Areas-L01

Safe Work and Environments Pty Ltd ABN 88127010995
7/103 Majors Bay Road, Concord NSW 2137
Phone: 02 8757 3611 Fax: 02 8757 3612
Email: enquiries@swe.com.au

ENVIROGUARD PTY LTD
ABN 23 060 919 164

85-87 QUARRY RD
ERSKINE PARK NSW 2759

DELIVERY DOCKET

Docket: EPI59813\1
Date: 27/04/2022 2:29 PM
Printed: 27/04/2022 2:29 PM
Operator: Lat

Customer: Resourceco Material Solut
Customer ABN: 84608316687
Address:
Suburb:
Vehicle: XN46QN-T
Carrier:
Order No:
Approval No: A22032
Job Details:

NSW_Asbestos Contaminated So
ABAC05 21.04t

Gross 33.36t
Tare 12.32t

85-87 QUARRY RD
ERSKINE PARK NSW 2759

DELIVERY DOCKET

Docket: EPI59789\1
Date: 27/04/2022 9:50 AM
Printed: 27/04/2022 9:50 AM
Operator: Lat

Customer: Resourceco Material Solut
Customer ABN: 84608316687
Address:
Suburb:
Vehicle: XN46QN-T
Carrier:
Order No:
Approval No: A22032
Job Details:

NSW_Asbestos Contaminated So
ABAC05 20.28t

Gross 32.62t
Tare 12.34t



Erskine Park Landfill
ENVIROGUARD PTY LTD
ABN 23 060 919 164

85-87 QUARRY RD
ERSKINE PARK NSW 2759

DELIVERY DOCKET

Docket: EPI59810\1
Date: 27/04/2022 1:44 PM
Printed: 27/04/2022 1:44 PM
Operator: Lat

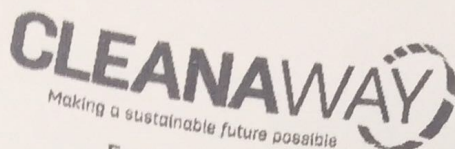
Customer: Resourceco Material Solut
Customer ABN: 84608316687
Address:
Suburb:
Vehicle: HR0088-T
Carrier:
Order No:
Approval No: A22032
Job Details:

NSW_Asbestos Contaminated So
ABAC05 19.40t

Gross **30.74t**
Tare **11.34t**

Net 19.40t

Phone:- 02 8602 8720
Transfer Station:- Mon-Fri: 3am-5pm
Sat: 6am-1pm
Landfill:- Mon-Fri: 7am-4pm



Erskine Park Landfill
ENVIROGUARD PTY LTD
ABN 23 060 919 164

85-87 QUARRY RD
ERSKINE PARK NSW 2759

DELIVERY DOCKET

Docket: EPI59788\1
Date: 27/04/2022 9:45 AM
Printed: 27/04/2022 9:46 AM
Operator: Lat
Customer: Resourceco Material Solut
Customer ABN: 84608316687
Address:
Suburb:
Vehicle: HR0088-T
Carrier:
Order No:
Approval No: A22032
Job Details:

NSW_Asbestos Contaminated So
ABAC05 22.64t

Gross	33.90t
Tare	11.26t
Net	22.64t

Phone:- 02 8602 8720
Transfer Station:- Mon-Fri: 3am-5pm
Sat: 6am-1pm
Landfill:- Mon-Fri: 7am-4pm



Erskine Park Landfill
ENVIROGUARD PTY LTD
ABN 23 060 919 164

85-87 QUARRY RD
ERSKINE PARK NSW 2759

DELIVERY DOCKET

Docket: EPI59817\1
Date: 27/04/2022 3:29 PM
Printed: 27/04/2022 3:29 PM
Operator: Lat

Customer: Resourceco Material Solut
Customer ABN: 84608316687
Address:
Suburb:
Vehicle: HR0088-T
Carrier:
Order No:
Approval No: A22032
Job Details:

NSW_Asbestos Contaminated So
ABAC05 18.40t

Gross 29.72t
Tare 11.32t

Net 18.40t

Phone:- 02 8602 8720
Transfer Station:- Mon-Fri: 3am-5pm
Sat: 6am-1pm
Landfill:- Mon-Fri: 7am-4pm

85-87 QUARRY RD
ERSKINE PARK NSW 2759

DELIVERY DOCKET

Docket: EPI59803\1
Date: 27/04/2022 11:55 AM
Printed: 27/04/2022 11:55 AM
Operator: Lat

Customer: Resourceco Material Solut
Customer ABN: 84608316687
Address:
Suburb:
Vehicle: XN46QN-T
Carrier:
Order No:
Approval No: A22032
Job Details:

NSW_Asbestos Contaminated So	
ABAC05	15.80t

Gross	28.16t
Tare	12.36t

85-87 QUARRY RD
ERSKINE PARK NSW 2759

DELIVERY DOCKET

Docket: EPI59801\1
Date: 27/04/2022 11:35 AM
Printed: 27/04/2022 11:35 AM
Operator: Lat

Customer: Resourceco Material Solut
Customer ABN: 84608316687
Address:
Suburb:
Vehicle: HR0088-T
Carrier:
Order No:
Approval No: A22032
Job Details:

NSW_Asbestos Contaminated So
ABAC05 17.84t

Gross	29.08t
Tare	11.24t
Net	17.84t