



AITKEN ROWE TESTING LABORATORIES PTY LTD

LIMITED PHASE 2 SITE INVESTIGATION

PLANNINGMATTERS DEVELOPMENT SERVICES

LOTS 1943 & 724 off BRIDGE ROAD, GRIFFITH, NSW

GS22-081

REPORT DETAILS

Report Type: Limited Phase 2 Site Investigation

Report Title: Limited Phase 2 Investigation Lots 1943 & 724 off Bridge Road, Griffith, NSW

Client: Planningmatters Development Services

Report Registration Number: GS22-081

Issue No.	Date of Issue	Author	Checked	Approved
1	June 2022	Nathan McLaren	Nathan McLaren	Nathan McLaren

Signed



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1. INTRODUCTION

1.1 Overview

Aitken Rowe Testing Laboratories (ARTL) was commissioned by Planningmatters Development Services to undertake a Limited Phase 2 Site Investigation (Phase 2) to assess the potential for contamination at 891 Watkins Avenue, Griffith, NSW (the site). The site currently consists of Lot 1943 in Deposited Plan 44495 and Lot 724 in Deposited Plan 751709 in the Local Government Area of Griffith.

It is understood there are plans to subdivide the site for future development. It is the purpose of this investigation to assess the underlying materials for contaminants of concern identified by Griffith City Council during the Development Application process. A site inspection and investigative works were undertaken on the 12th April 2022. Access to the site in its entirety was obtained and details of this inspection and investigative works are provided in this report, together with comments on the significance of the findings.

1.2 Proposed Development

ARTL has been advised that the site is to be subdivided to allow future development. The future development is likely to be commercial/industrial.

1.3 Objectives

The objectives of the investigation are:

- Briefly document the site history.
- Identify past and present potential contaminating activities;
- Assess the risk of these contaminant sources with respect to the contamination status of the site.
- Conclude whether or not the site is suitable for proposed use as zoned without further assessment, or provide recommendations for further assessment (if required) to enable such conclusions.

1.4 Scope of Work

The scope of work undertaken by ARTL to meet the objectives comprised the following:

- Review of historical information including local Council information, anecdotal information and a search for previous investigations performed for the site.
- Review of geology, topography and hydrology of the site.
- Detailed site inspection and investigation including
 - Excavating 80 boreholes to depths of 0.5m
 - Collection of 20 composite soil samples for analysis
 - Undertaking visual inspection for potential onsite contamination.
- Laboratory analysis of representative soil samples for:
 - OC Pesticides – Organochlorine Pesticides, 20 composite samples
 - OP Pesticides – Organophosphorus Pesticides, 20 composite samples
 - PCB – Polychlorinated Biphenyls, 20 composite samples
 - Metals – Arsenic, Cadmium, Chromium, Copper Lead, Mercury, Nickel and Zinc, 20 composite samples
 - Asbestos – 20 composite samples
- Assessment of data collected during the investigation and analysis results.
- The completion of a formal report presenting results, contamination assessment and conclusions.

2 SITE IDENTIFICATION

2.1 Site Location

The site is located off Bridge Road immediately south east of central business district of Griffith as shown in (Figure 1).

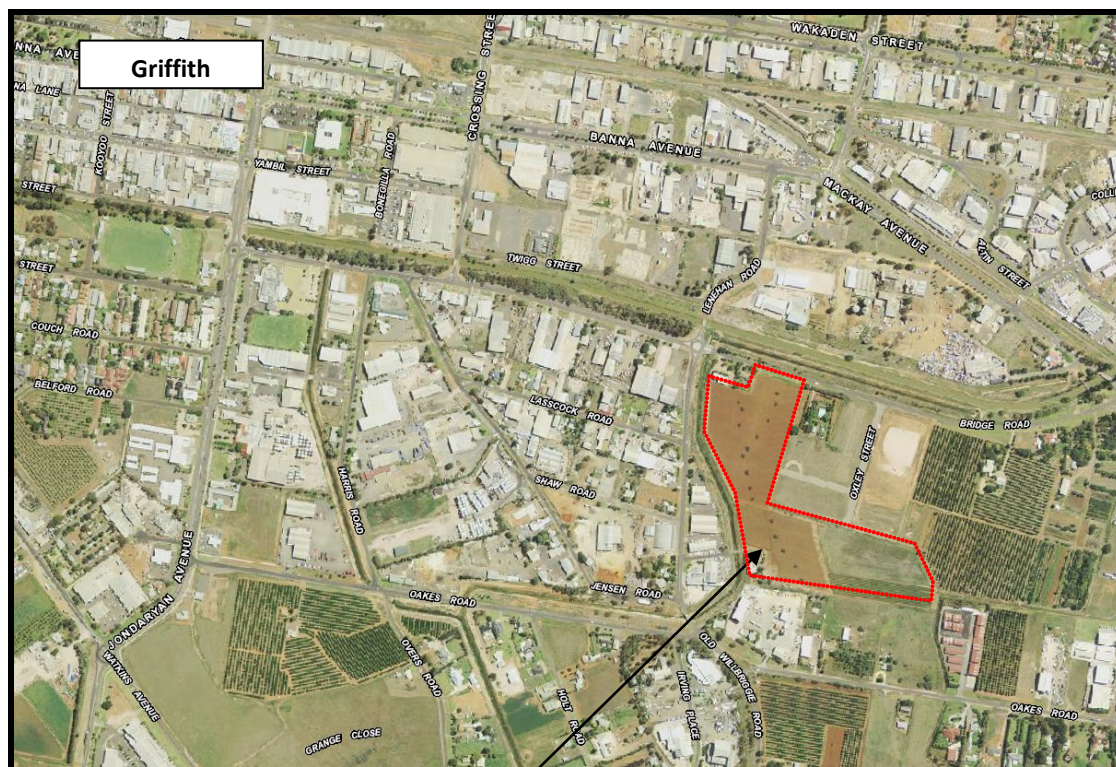


Figure 1: Aerial photograph displaying the site and surrounds (© Department of Lands 2022).

2.2 Site Inspection and Description

The site is located off Bridge Road and consists of Lot 1943 in Deposited Plan 44495 and Lot 724 in Deposited Plan 751709 in the Local Government Area of Griffith. The surrounding land is a mixture of commercial, residential & agricultural properties. The site is currently vacant and forms a large lot residential property with an existing residence to the south west of the lot. From historical aerial images the remainder of the site was used for agriculture (vineyard) with vines and associated irrigation infrastructure removed circa 2015.

The total area of the property is approximately 9.6 hectares. A detailed site plan is attached in Appendix A.

2.3 Surrounding Land-use

The area immediately surrounding the site consists of commercial, residential and agricultural properties. The site is bound by irrigation channel to the west, Bridge Road to the north, commercial properties to the east & south, agricultural properties to the east and residential & commercial properties to the south.

2.4 Site Details Summary

Table 1 provides a summary of site details.

Table 1: Site detail summary

Site Details	
Site Address	642 Potter Place, Griffith, NSW
Title Identification	Lot 1943 in DP 44495 & Lot 724 in DP 751709
Current Site Use	Vacant/agricultural
Future Site Use	Commercial/Industrial
Investigation Area	9.6 Hectares (approx.)

3 PHYSICAL SETTING

3.1 Site Topography and Hydrology

The site is generally flat and the elevation is approximately 125m above sea level.

The local hydrology of the area consists of both constructed irrigation channels and natural drainage systems. Any runoff from the site is likely to run into the nearby drainage reserve which forms part of the local irrigation network. The local irrigation network also forms part of the natural Mirrool Creek catchment, which flows toward the Barren Box Swamp. It is likely that in times of excessive rain, water would infiltrate the underlying soil materials and percolate toward the water table.

3.2 Local Geology and Soil

The topography of the wider area is generally flat. The 1:250 000 scale Geological Series sheet for Narrandera (S1 55-10) indicates that the area is underlain by quaternary sediments of Cainozoic age consisting of alluvial deposits of clays, silts and sands.

Intrusive works completed for various geotechnical investigations revealed the area is generally underlain by topsoil overlying low to medium, medium & high plasticity clay & sandy clays to minimum 3.0m.

3.3 Hydrogeology

It was beyond the scope of work to study the groundwater flow direction. Mobile contaminants (if any) located at the site would be expected to progress down to the groundwater surface, and migrate laterally down gradient from the source.

4 SITE HISTORY

4.1 Anecdotal Evidence

The site has been used for agricultural (vinyard) purposes previously.

4.2 Contaminated Land Register Search

A search of the sites listed by the EPA under the *Contaminated Land Management Act 1997* revealed that no records have been issued against the site.

4.4 Previous Investigation Reports

No previous contamination investigative reports for the site were made available for this investigation.

5 POTENTIAL CONTAMINATION TYPES AND RECEPTORS

5.1 Potential Contamination Types

Based on the site history and site inspection the potential contaminants at the site are likely to be those associated with pesticide application and asbestos from irrigation pipework. Therefore any contamination is expected to be in the surface materials from direct application and over spray from adjacent properties which have persisted through time. It is noted that no machinery has been stored on site as well as no facilities for petrochemical storage.

6 Sampling and Analysis

6.1 Soil Investigation Levels

Analysis criteria will be based upon the following:

- Health Screening Levels (HSL), Ecological Investigation Levels (EIL) and Ecological Screening Levels (ESL) presented in the National Environment Protection Council's (NEPC) National Environment Protection Measure (NEPM amended 2013).

NEPM (2013) present HSL's, ESL's and EIL's for different land uses including Industrial/commercial, residential with minimal access to soil, residential with accessible soil, recreational etc. The proposed site use is likely to be entirely commercial/industrial however there is a possibility that part of the subdivision may be residential; therefore HIL-A (residential) will be adopted for respective contaminants of concern. The investigation levels adopted for assessing the contamination status of the underlying materials at the site are provided in Table 2.

Table 2: Soil investigation levels

<i>Analyte</i>	<i>Health Investigation Levels (mg/kg) HIL-A</i>
DDT + DDD + DDE	240
Aldrin & Dieldrin	6
Chlordane	50
Endosulfan	270
Endrin	10
Heptachlor	6
Methoxychlor	300
Chlorpyrifos	160
PCB	1
Chlordane	50
Arsenic	100
Cadmium	20
Chromium	100
Copper	6000
Lead	300
Mercury	40
Nickel	400
Zinc	7400
Asbestos	ND*

*ND – A nil detection limit has been adopted for this investigation.

7 Results

The field investigation was completed on the 12th April 2022. A total of 80 boreholes to 0.5m were excavated across the site in a grid base format. Twenty (20) composite samples (4 x sub samples per composite) were taken for analysis. No obvious signs (visual/olfactory) of contamination were noted in the underlying materials during field work activities. A sample location plan is attached in Appendix A. Global Positioning System (GPS) co-ordinates were taken for each borehole (Appendix B).

A total of 20 samples were sent for various analysis by EnviroLab P/L, a NATA accredited laboratory in Sydney. The laboratory test reports are attached in Appendix C. The following sections provide a summary of the results.

7.1 Soil Investigation Results

A total of 20 samples from 80 boreholes to depths of between 0.0 and 0.5m were used to assess the contamination status of the underlying materials of the site. All results were found below the adopted criteria for all analytes tested. Table 3 provides a summary of the results.

Table 3: Results summary (*ND – Nil detection*)

<i>Number of Samples (Composite and discrete)</i>	<i>Analyte</i>	<i>Adopted Criteria (mg/kg)</i>	<i>Minimum Concentration (mg/kg)</i>	<i>Maximum Concentration (mg/kg)</i>	<i>Samples Exceeding Adopted Criteria</i>
20	DDt+DDE+DDD	240	<0.1	<0.1	Nil
20	Aldrin and dieldrin	6	<0.1	<0.1	Nil
20	Endosulfan	270	<0.1	<0.1	Nil
20	Endrin	10	<0.1	<0.1	Nil
20	Heptachlor	6	<0.1	<0.1	Nil
20	Methoxychlor	300	<0.1	<0.1	Nil
20	Chlorpyrifos	160	<0.1	<0.1	Nil
20	PCB	300	<0.05	<0.05	Nil
20	Arsenic	100	4	10	Nil
20	Cadmium	20	<0.4	<0.4	Nil
20	Chromium	100	13	22	Nil
20	Copper	6000	24	92	Nil
20	Lead	300	8	27	Nil
20	Mercury	40	<0.1	<0.1	Nil
20	Nickel	400	6	11	Nil
20	Zinc	7400	14	55	Nil
20	Asbestos	ND	ND	ND	Nil

8 CONCLUSIONS

Based on the data and evidence collected in the course of the site inspection, site history review and sampling and analysis program, the findings of the Limited Phase 2 are as follows:

- The site was previously developed for agriculture (vineyard) with all vines and associated irrigation infrastructure removed circa 2015.
- There has been no significant storage of fuels/oils or chemicals at the site.
- A subdivision is proposed for the site.
- Due to the site history the potential for significant and widespread contamination is considered low.
- The results of the sampling and analysis program showed that all samples analysed were found below the adopted criteria (Residential) for Organochlorine, Organophosphate Pesticides, Polychlorinated Biphenyls and metals. No asbestos was detected in any of the samples analysed.
- The site is therefore considered suitable for the proposed commercial/industrial and/or residential development.

9 RECOMMENDATIONS

No further investigation of the contamination of the underlying materials is considered necessary at the site. Any soil material requiring exportation from the site during future development works should be classified in accordance with the Excavated Natural Material Order (2014) and if required the Waste Classification Guidelines Part 1: Classifying Waste (2014).

10 ADDENDUM

LIMITS OF INVESTIGATION

The recommendations made in this report assume that the test results are representative of the overall subsurface conditions. However, it should be noted that even under optimum circumstances, actual conditions in some parts of the site may differ from those said to exist, because no environmental consultant, no matter how qualified, and no subsurface exploration program, no matter how comprehensive, can reveal all that is hidden by earth, rock and time.

The client should also be aware that our recommendations refer only to our test site locations and the ground level at the time of testing.

The recommendations in this report are based on the following:-

- a) The information gained from this investigation
- b) The results received from a NATA accredited environmental laboratory
- c) Historical information
- d) Information supplied by the client



APPENDIX A Site Plan



**AITKEN ROWE TESTING LABORATORIES
PTY LTD**

Registration Number: GS22-81

Client: PLANNINGMATTERS DEVELOPMENT SERVICES – GRIFFITH, NSW
Project: LIMITED PHASE 2 ASSESSMENT
 PROPOSED SUBDIVISION, LOT 1943 & 724 OFF BRIDGE ROAD,
 GRIFFITH, NSW
 BOREHOLE LOCATION PLAN



Appendix B

Sample GPS Co-ordinate Table

BOREHOLE CO-ORDINATES			
Borehole Number	Easting	Northing	Sample Number
1	0413781	6204811	C1
2	0413751	6204822	
3	0413725	6204830	
4	0413700	6204838	
5	0413696	6204807	C2
6	0413723	6204798	
7	0413743	6204793	
8	0413775	6204785	
9	0413660	6204788	C3
10	0413633	6204794	
11	0413610	6204803	
12	0413586	6204813	
13	0413596	6204780	C4
14	0413614	6204774	
15	0413641	6204767	
16	0413663	6204762	
17	0413652	6204742	C5
18	0413633	6204670	
19	0413601	6204683	
20	0413594	6204750	
21	0413690	6204775	C6
22	0413683	6204742	
23	0413674	6204699	
24	0413665	6204664	
25	0413695	6204661	C7
26	0413710	6204707	
27	0413720	6204738	
28	0413729	6204767	

BOREHOLE CO-ORDINATES			
Borehole Number	Easting	Northing	Sample Number
29	0413759	6204755	C8
30	0413751	6204724	
31	0413742	6204692	
32	0413727	6204649	
33	0413703	6204629	C9
34	0413674	6204637	
35	0413646	6204644	
36	0413608	6204659	
37	0413637	6204628	C10
38	0413661	6204593	
39	0413722	6204609	
40	0413768	6204586	
41	0413706	6204537	C11
42	0413705	6204501	
43	0413672	6204505	
44	0413672	6204555	
45	0413730	6204540	C12
46	0413737	6204492	
47	0413743	6204454	
48	0413752	6204425	
49	0413758	6204531	C13
50	0413769	6204491	
51	0413784	6204444	
52	0413793	6204409	
53	0413826	6204410	C14
54	0413818	6204434	
55	0413803	6204479	
56	0413793	6204527	

BOREHOLE CO-ORDINATES			
Borehole Number	Easting	Northing	Sample Number
57	0413855	6204427	C15
58	0413895	6204421	
59	0413923	6204419	
60	0413957	6204415	
61	0413980	6204411	C16
62	0414007	6204409	
63	0414033	6204404	
64	0414069	6204401	
65	0414041	6204426	C17
66	0414009	6204467	
67	0413967	6204478	
68	0413954	6204434	
69	0413921	6204434	C18
70	0413913	6204489	
71	0413873	6204509	
72	0413869	6204456	
73	0414050	6204383	C19
74	0414009	6204387	
75	0413939	6204396	
76	0413887	6204404	
77	0414051	6204355	C20
78	0413996	6204363	
79	0413929	6204373	
80	0413871	6204381	

Appendix C

Laboratory Test Reports as received from EnviroLab

CERTIFICATE OF ANALYSIS 294567

Client Details

Client	Aitken Rowe Testing Laboratories (Griffith) Pty Ltd
Attention	Michael Scremin
Address	17B Battista St, GRIFFITH, NSW, 2680

Sample Details

Your Reference	<u>GS22-81, Lot 1943 & 724 Off Bridge Rd, Griffith</u>
Number of Samples	20 Soil
Date samples received	03/05/2022
Date completed instructions received	03/05/2022

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	10/05/2022
Date of Issue	09/05/2022
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 *	

Asbestos Approved By

Analysed by Asbestos Approved Analyst: Lucy Zhu
 Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By

Hannah Nguyen, Metals Supervisor
 Liam Timmins, Organic Instruments Team Leader
 Lucy Zhu, Asbestos Supervisor

Authorised By



Nancy Zhang, Laboratory Manager

Organochlorine Pesticides in soil						
Our Reference		294567-1	294567-2	294567-3	294567-4	294567-5
Your Reference	UNITS	GS22-81/C1	GS22-81/C2	GS22-81/C3	GS22-81/C4	GS22-81/C5
Depth		0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5
Date Sampled		12/04/2022	12/04/2022	12/04/2022	12/04/2022	12/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
Date analysed	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
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	%	104	104	102	101	103

Organochlorine Pesticides in soil						
Our Reference		294567-6	294567-7	294567-8	294567-9	294567-10
Your Reference	UNITS	GS22-81/C6	GS22-81/C7	GS22-81/C8	GS22-81/C9	GS22-81/C10
Depth		0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5
Date Sampled		12/04/2022	12/04/2022	12/04/2022	12/04/2022	12/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
Date analysed	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
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	101	98	99	96

Organochlorine Pesticides in soil						
Our Reference		294567-11	294567-12	294567-13	294567-14	294567-15
Your Reference	UNITS	GS22-81/C11	GS22-81/C12	GS22-81/C13	GS22-81/C14	GS22-81/C15
Depth		0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5
Date Sampled		12/04/2022	12/04/2022	12/04/2022	12/04/2022	12/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
Date analysed	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
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	%	95	98	100	99	99

Organochlorine Pesticides in soil						
Our Reference		294567-16	294567-17	294567-18	294567-19	294567-20
Your Reference	UNITS	GS22-81/C16	GS22-81/C17	GS22-81/C18	GS22-81/C19	GS22-81/C20
Depth		0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5
Date Sampled		12/04/2022	12/04/2022	12/04/2022	12/04/2022	12/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
Date analysed	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
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	%	98	97	101	101	97

Organophosphorus Pesticides in Soil						
Our Reference		294567-1	294567-2	294567-3	294567-4	294567-5
Your Reference	UNITS	GS22-81/C1	GS22-81/C2	GS22-81/C3	GS22-81/C4	GS22-81/C5
Depth		0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5
Date Sampled		12/04/2022	12/04/2022	12/04/2022	12/04/2022	12/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
Date analysed	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
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	%	104	104	102	101	103

Organophosphorus Pesticides in Soil						
Our Reference		294567-6	294567-7	294567-8	294567-9	294567-10
Your Reference	UNITS	GS22-81/C6	GS22-81/C7	GS22-81/C8	GS22-81/C9	GS22-81/C10
Depth		0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5
Date Sampled		12/04/2022	12/04/2022	12/04/2022	12/04/2022	12/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
Date analysed	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
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	101	98	99	96

Organophosphorus Pesticides in Soil						
Our Reference		294567-11	294567-12	294567-13	294567-14	294567-15
Your Reference	UNITS	GS22-81/C11	GS22-81/C12	GS22-81/C13	GS22-81/C14	GS22-81/C15
Depth		0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5
Date Sampled		12/04/2022	12/04/2022	12/04/2022	12/04/2022	12/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
Date analysed	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
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	%	95	98	100	99	99

Organophosphorus Pesticides in Soil						
Our Reference		294567-16	294567-17	294567-18	294567-19	294567-20
Your Reference	UNITS	GS22-81/C16	GS22-81/C17	GS22-81/C18	GS22-81/C19	GS22-81/C20
Depth		0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5
Date Sampled		12/04/2022	12/04/2022	12/04/2022	12/04/2022	12/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
Date analysed	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
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	%	98	97	101	101	97

PCBs in Soil						
Our Reference	UNITS	294567-1	294567-2	294567-3	294567-4	294567-5
Your Reference		GS22-81/C1	GS22-81/C2	GS22-81/C3	GS22-81/C4	GS22-81/C5
Depth		0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5
Date Sampled		12/04/2022	12/04/2022	12/04/2022	12/04/2022	12/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
Date analysed	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
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	%	104	104	102	101	103

PCBs in Soil						
Our Reference	UNITS	294567-6	294567-7	294567-8	294567-9	294567-10
Your Reference		GS22-81/C6	GS22-81/C7	GS22-81/C8	GS22-81/C9	GS22-81/C10
Depth		0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5
Date Sampled		12/04/2022	12/04/2022	12/04/2022	12/04/2022	12/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
Date analysed	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
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	101	98	99	96

PCBs in Soil						
Our Reference		294567-11	294567-12	294567-13	294567-14	294567-15
Your Reference	UNITS	GS22-81/C11	GS22-81/C12	GS22-81/C13	GS22-81/C14	GS22-81/C15
Depth		0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5
Date Sampled		12/04/2022	12/04/2022	12/04/2022	12/04/2022	12/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
Date analysed	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
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	%	95	98	100	99	99

PCBs in Soil						
Our Reference		294567-16	294567-17	294567-18	294567-19	294567-20
Your Reference	UNITS	GS22-81/C16	GS22-81/C17	GS22-81/C18	GS22-81/C19	GS22-81/C20
Depth		0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5
Date Sampled		12/04/2022	12/04/2022	12/04/2022	12/04/2022	12/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
Date analysed	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
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	%	98	97	101	101	97

Acid Extractable metals in soil

Our Reference		294567-1	294567-2	294567-3	294567-4	294567-5
Your Reference	UNITS	GS22-81/C1	GS22-81/C2	GS22-81/C3	GS22-81/C4	GS22-81/C5
Depth		0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5
Date Sampled		12/04/2022	12/04/2022	12/04/2022	12/04/2022	12/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
Date analysed	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
Arsenic	mg/kg	5	7	9	6	5
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	20	20	20	19	19
Copper	mg/kg	24	43	92	37	29
Lead	mg/kg	8	9	11	9	9
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	10	9	10	11	10
Zinc	mg/kg	14	23	26	15	55

Acid Extractable metals in soil

Our Reference		294567-6	294567-7	294567-8	294567-9	294567-10
Your Reference	UNITS	GS22-81/C6	GS22-81/C7	GS22-81/C8	GS22-81/C9	GS22-81/C10
Depth		0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5
Date Sampled		12/04/2022	12/04/2022	12/04/2022	12/04/2022	12/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
Date analysed	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
Arsenic	mg/kg	5	7	8	5	6
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	16	20	20	20	22
Copper	mg/kg	37	43	47	31	40
Lead	mg/kg	8	9	10	10	11
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	7	8	10	9	11
Zinc	mg/kg	18	23	26	24	31

Acid Extractable metals in soil

Our Reference		294567-11	294567-12	294567-13	294567-14	294567-15
Your Reference	UNITS	GS22-81/C11	GS22-81/C12	GS22-81/C13	GS22-81/C14	GS22-81/C15
Depth		0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5
Date Sampled		12/04/2022	12/04/2022	12/04/2022	12/04/2022	12/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
Date analysed	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
Arsenic	mg/kg	4	7	6	8	4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	21	20	22	20	18
Copper	mg/kg	27	66	73	58	28
Lead	mg/kg	8	27	12	12	8
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	6	9	9	9	8
Zinc	mg/kg	20	53	35	35	20

Acid Extractable metals in soil

Our Reference		294567-16	294567-17	294567-18	294567-19	294567-20
Your Reference	UNITS	GS22-81/C16	GS22-81/C17	GS22-81/C18	GS22-81/C19	GS22-81/C20
Depth		0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5
Date Sampled		12/04/2022	12/04/2022	12/04/2022	12/04/2022	12/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
Date analysed	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
Arsenic	mg/kg	7	8	4	10	8
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	18	17	20	19	13
Copper	mg/kg	30	42	37	63	42
Lead	mg/kg	10	9	10	10	8
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	9	10	9	8	7
Zinc	mg/kg	16	17	28	27	16

Moisture						
Our Reference	UNITS	294567-1	294567-2	294567-3	294567-4	294567-5
Your Reference		GS22-81/C1	GS22-81/C2	GS22-81/C3	GS22-81/C4	GS22-81/C5
Depth		0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5
Date Sampled		12/04/2022	12/04/2022	12/04/2022	12/04/2022	12/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
Date analysed	-	05/05/2022	05/05/2022	05/05/2022	05/05/2022	05/05/2022
Moisture	%	9.8	11	13	12	14

Moisture						
Our Reference	UNITS	294567-6	294567-7	294567-8	294567-9	294567-10
Your Reference		GS22-81/C6	GS22-81/C7	GS22-81/C8	GS22-81/C9	GS22-81/C10
Depth		0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5
Date Sampled		12/04/2022	12/04/2022	12/04/2022	12/04/2022	12/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
Date analysed	-	05/05/2022	05/05/2022	05/05/2022	05/05/2022	05/05/2022
Moisture	%	12	10	10	11	12

Moisture						
Our Reference	UNITS	294567-11	294567-12	294567-13	294567-14	294567-15
Your Reference		GS22-81/C11	GS22-81/C12	GS22-81/C13	GS22-81/C14	GS22-81/C15
Depth		0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5
Date Sampled		12/04/2022	12/04/2022	12/04/2022	12/04/2022	12/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
Date analysed	-	05/05/2022	05/05/2022	05/05/2022	05/05/2022	05/05/2022
Moisture	%	11	12	8.9	8.5	7.6

Moisture						
Our Reference	UNITS	294567-16	294567-17	294567-18	294567-19	294567-20
Your Reference		GS22-81/C16	GS22-81/C17	GS22-81/C18	GS22-81/C19	GS22-81/C20
Depth		0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5
Date Sampled		12/04/2022	12/04/2022	12/04/2022	12/04/2022	12/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	04/05/2022	04/05/2022	04/05/2022	04/05/2022	04/05/2022
Date analysed	-	05/05/2022	05/05/2022	05/05/2022	05/05/2022	05/05/2022
Moisture	%	7.8	9.0	9.4	8.1	14

Asbestos ID - soils						
Our Reference	UNITS	294567-1	294567-2	294567-3	294567-4	294567-5
Your Reference		GS22-81/C1	GS22-81/C2	GS22-81/C3	GS22-81/C4	GS22-81/C5
Depth		0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5
Date Sampled		12/04/2022	12/04/2022	12/04/2022	12/04/2022	12/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022
Sample mass tested	g	Approx. 40g	Approx. 40g	Approx. 35g	Approx. 40g	Approx. 30g
Sample Description	-	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils						
Our Reference	UNITS	294567-6	294567-7	294567-8	294567-9	294567-10
Your Reference		GS22-81/C6	GS22-81/C7	GS22-81/C8	GS22-81/C9	GS22-81/C10
Depth		0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5
Date Sampled		12/04/2022	12/04/2022	12/04/2022	12/04/2022	12/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022
Sample mass tested	g	Approx. 30g	Approx. 40g	Approx. 40g	Approx. 30g	Approx. 25g
Sample Description	-	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils						
Our Reference	UNITS	294567-11	294567-12	294567-13	294567-14	294567-15
Your Reference		GS22-81/C11	GS22-81/C12	GS22-81/C13	GS22-81/C14	GS22-81/C15
Depth		0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5
Date Sampled		12/04/2022	12/04/2022	12/04/2022	12/04/2022	12/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022
Sample mass tested	g	Approx. 35g	Approx. 40g	Approx. 35g	Approx. 40g	Approx. 35g
Sample Description	-	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - soils						
Our Reference	UNITS	294567-16	294567-17	294567-18	294567-19	294567-20
Your Reference		GS22-81/C16	GS22-81/C17	GS22-81/C18	GS22-81/C19	GS22-81/C20
Depth		0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5	0.0-00.5
Date Sampled		12/04/2022	12/04/2022	12/04/2022	12/04/2022	12/04/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	09/05/2022	09/05/2022	09/05/2022	09/05/2022	09/05/2022
Sample mass tested	g	Approx. 35g	Approx. 35g	Approx. 35g	Approx. 40g	Approx. 35g
Sample Description	-	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
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-021	Determination of Mercury by Cold Vapour AAS.
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.
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.

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	294567-2
Date extracted	-			04/05/2022	1	04/05/2022	04/05/2022		04/05/2022	04/05/2022
Date analysed	-			04/05/2022	1	04/05/2022	04/05/2022		04/05/2022	04/05/2022
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	96	90
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	92	89
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	83	81
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	97	93
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	96	88
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	94	89
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	100	94
Endrin	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	98	94
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	94	90
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	96	90
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	103	1	104	104	0	126	115

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	11	04/05/2022	04/05/2022		[NT]	[NT]
Date analysed	-			[NT]	11	04/05/2022	04/05/2022		[NT]	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
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	[NT]	[NT]
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	[NT]	[NT]
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	[NT]	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
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	[NT]	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Endrin	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
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	[NT]	[NT]
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	[NT]	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	[NT]	11	95	96	1	[NT]	[NT]

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	294567-2
Date extracted	-			04/05/2022	1	04/05/2022	04/05/2022		04/05/2022	04/05/2022
Date analysed	-			04/05/2022	1	04/05/2022	04/05/2022		04/05/2022	04/05/2022
Dichlorvos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	109	107
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	91	85
Fenitrothion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	95	87
Malathion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	134	120
Chlorpyrifos	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	104	96
Parathion	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	87	80
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	98	92
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	103	1	104	104	0	126	115

QUALITY CONTROL: Organophosphorus Pesticides in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	11	04/05/2022	04/05/2022		[NT]	[NT]
Date analysed	-			[NT]	11	04/05/2022	04/05/2022		[NT]	[NT]
Dichlorvos	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
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	[NT]	[NT]
Fenitrothion	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Malathion	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Chlorpyrifos	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Parathion	mg/kg	0.1	Org-022/025	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
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	[NT]	[NT]
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	95	96	1	[NT]	[NT]

QUALITY CONTROL: PCBs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	294567-2
Date extracted	-			04/05/2022	1	04/05/2022	04/05/2022		04/05/2022	04/05/2022
Date analysed	-			04/05/2022	1	04/05/2022	04/05/2022		04/05/2022	04/05/2022
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	97	80
Aroclor 1260	mg/kg	0.1	Org-021	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	103	1	104	104	0	126	115

QUALITY CONTROL: PCBs in Soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date extracted	-			[NT]	11	04/05/2022	04/05/2022		[NT]	[NT]
Date analysed	-			[NT]	11	04/05/2022	04/05/2022		[NT]	[NT]
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	[NT]	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	[NT]	11	95	96	1	[NT]	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	294567-2
Date prepared	-			04/05/2022	1	04/05/2022	04/05/2022		04/05/2022	04/05/2022
Date analysed	-			04/05/2022	1	04/05/2022	04/05/2022		04/05/2022	04/05/2022
Arsenic	mg/kg	4	Metals-020	<4	1	5	4	22	94	88
Cadmium	mg/kg	0.4	Metals-020	<0.4	1	<0.4	<0.4	0	94	86
Chromium	mg/kg	1	Metals-020	<1	1	20	20	0	91	92
Copper	mg/kg	1	Metals-020	<1	1	24	21	13	91	110
Lead	mg/kg	1	Metals-020	<1	1	8	8	0	92	89
Mercury	mg/kg	0.1	Metals-021	<0.1	1	<0.1	<0.1	0	111	112
Nickel	mg/kg	1	Metals-020	<1	1	10	9	11	95	92
Zinc	mg/kg	1	Metals-020	<1	1	14	13	7	90	85

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	11	04/05/2022	04/05/2022		[NT]	[NT]
Date analysed	-			[NT]	11	04/05/2022	04/05/2022		[NT]	[NT]
Arsenic	mg/kg	4	Metals-020	[NT]	11	4	5	22	[NT]	[NT]
Cadmium	mg/kg	0.4	Metals-020	[NT]	11	<0.4	<0.4	0	[NT]	[NT]
Chromium	mg/kg	1	Metals-020	[NT]	11	21	21	0	[NT]	[NT]
Copper	mg/kg	1	Metals-020	[NT]	11	27	30	11	[NT]	[NT]
Lead	mg/kg	1	Metals-020	[NT]	11	8	9	12	[NT]	[NT]
Mercury	mg/kg	0.1	Metals-021	[NT]	11	<0.1	<0.1	0	[NT]	[NT]
Nickel	mg/kg	1	Metals-020	[NT]	11	6	7	15	[NT]	[NT]
Zinc	mg/kg	1	Metals-020	[NT]	11	20	21	5	[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

Asbestos: A portion of the supplied sample was sub-sampled for asbestos according to ASB-001 asbestos subsampling procedure. We cannot guarantee that this sub-sample is indicative of the entire sample. Envirolab/MPL recommends supplying 40-60g or 500ml of sample in its own container.

Note: Samples were sub-sampled from jars provided by the client.