



Description

Plot 100

Hole ID	Plot 100 2
Plot No./Position	Plot 100
Date of Hole	25/11/2021, 10:06
Hole Type	HP
Final Depth	0.32

Ground Conditions

(1 record)

Top Depth	Base Depth	General description of stratum
0	0.32	Dark brown slightly sandy CLAY with frequent roots and rootlets

Samples

(1 record)

Top Depth	Base Depth	Sample type	Sample reference
0.15		ES	1

Pass/Fail (X) Pass
() Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

(1 record)

Photograph



Description

Plot 100

Hole ID	Plot 100 3
Plot No./Position	Plot 100
Date of Hole	25/11/2021, 10:11
Hole Type	HP
Final Depth	0.33

Ground Conditions

(1 record)

Top Depth	Base Depth	General description of stratum
0	0.33	Dark brown slightly sandy CLAY with frequent roots and rootlets

(X) Pass

Pass/Fail

() Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

(1 record)

Photograph



Description

Plot 100

Hole ID	Plot 101 1
Plot No./Position	Plot 101
Date of Hole	25/11/2021, 10:14
Hole Type	HP
Final Depth	0.62

Ground Conditions

(2 records)

Top Depth	Base Depth	General description of stratum
0	0.3	Dark brown slightly sandy CLAY with frequent roots and rootlets
		Firm brown slightly sandy CLAY with occasional roots and rootlets

0.3	0.62	Taram beneath
-----	------	---------------

Samples

(1 record)

Top Depth	Base Depth	Sample type	Sample reference
0.2		ES	1

Pass/Fail (X) Pass
() Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

(1 record)

Photograph



Description

Plot 101

Hole ID Plot 101 2

Plot No./Position Plot 101

Date of Hole 25/11/2021, 10:21

Hole Type HP

Final Depth 0.64

Ground Conditions

(2 records)

Top Depth	Base Depth	General description of stratum
0	0.3	Dark brown slightly sandy CLAY with frequent roots and rootlets
0.3	0.64	Firm brown slightly sandy CLAY with occasional roots and rootlets

Samples

(1 record)

Top Depth	Base Depth	Sample type	Sample reference
0.45		ES	1

Pass/Fail

(X) Pass
() Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

(1 record)

Photograph



Description

Plot 101

Approved By

No users

ID	GE19455
Project Name	Woodcroft Farm
Client	Vistry
Engineers	
 Fiona Goode	fiona.goode@gesl.net
Project Manager	
 Fiona Goode	fiona.goode@gesl.net
Location	Lovedean
Date	29/11/2021

Details of Hole

(4 records)

Hole ID	Plot 102 1
Plot No./Position	Plot 102
Date of Hole	29/11/2021, 12:01
Hole Type	HP
Final Depth	0.62

Ground Conditions

(2 records)

Top Depth	Base Depth	General description of stratum
0	0.3	Dark brown slightly sandy slightly gravelly CLAY with frequent roots and rootlets
0.3	0.62	Firm orange brown slightly sandy CLAY with occasional roots and rootlets Taram beneath

Pass/Fail (X) Pass
() Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

(1 record)

Photograph



Description

Plot 102

Hole ID	Plot 102 2
Plot No./Position	Plot 102
Date of Hole	29/11/2021, 12:05
Hole Type	HP
Final Depth	0.61

Ground Conditions

(2 records)

Top Depth	Base Depth	General description of stratum
0	0.3	Dark brown slightly sandy slightly gravelly CLAY with frequent roots and rootlets
0.3	0.61	Firm orange brown slightly sandy CLAY with occasional roots and rootlets Taram beneath

Pass/Fail

(X) Pass

() Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

(1 record)

Photograph



Description

Plot 102

Hole ID

Plot 103 1

Plot No./Position

Plot 103

Date of Hole

29/11/2021, 12:08

Hole Type

HP

Final Depth

0.61

Ground Conditions

(2 records)

Top Depth	Base Depth	General description of stratum
0	0.3	Dark brown slightly sandy slightly gravelly CLAY with frequent roots and rootlets

0.3	0.61	Firm orange brown slightly sandy CLAY with occasional roots and rootlets Taram beneath
Pass/Fail		(X) Pass () Fail
Remarks		
Photo of Spoil		
		
Photo of hole with tape in place		



Photographs

(1 record)

Photograph



Description

Plot 103

Hole ID Plot 103 2

Plot No./Position Plot 103

Date of Hole 29/11/2021, 12:11

Hole Type HP

Final Depth 0.61

Ground Conditions

(2 records)

Top Depth	Base Depth	General description of stratum
0	0.3	Dark brown slightly sandy slightly gravelly CLAY with frequent roots and rootlets
0.3	0.61	Firm orange brown slightly sandy CLAY with occasional roots and rootlets Taram beneath

Pass/Fail (X) Pass
() Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

(2 records)

Photograph



Description

Plot 103

Photograph



Description

Plot 103 edge with membrane

Approved By

No users

ID	GE19455
Project Name	Woodcroft Farm
Client	Vistry
Engineers	
 Fiona Goode	fiona.goode@gesl.net
Project Manager	
 Fiona Goode	fiona.goode@gesl.net
Location	Lovedean
Date	10/12/2021

Details of Hole

(3 records)

Hole ID	Plot 104 (1)
Plot No./Position	Plot 104
Date of Hole	10/12/2021, 09:33
Hole Type	HP
Final Depth	0.61

Ground Conditions

(2 records)

Top Depth	Base Depth	General description of stratum
0	0.3	Dark brown slightly gravelly CLAY with frequent roots and rootlets
0.3	0.61	Firm orange and grey mottled slightly gravelly CLAY with rare rootlets Taram beneath

Pass/Fail ☒ (X) Pass
☐ () Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

(1 record)

Photograph



Description

Plot 104

Hole ID	Plot 104 (2)
Plot No./Position	Plot 104
Date of Hole	10/12/2021, 09:36
Hole Type	HP
Final Depth	0.62

Ground Conditions

(2 records)

Top Depth	Base Depth	General description of stratum
0	0.3	Dark brown slightly gravelly CLAY with frequent roots and rootlets
		Firm orange and grey mottled slightly gravelly CLAY with rare rootlets

0.3	0.62	Taram beneath
Pass/Fail		(X) Pass () Fail
Remarks		
Photo of Spoil		
		
Photo of hole with tape in place		



Photographs

(1 record)

Photograph



Description

Plot 104

Hole ID

Plot 105

Plot No./Position

Plot 105

Date of Hole

10/12/2021, 09:38

Hole Type

HP

Final Depth

0.62

Ground Conditions

(2 records)

Top Depth	Base Depth	General description of stratum
0	0.3	Dark brown slightly gravelly CLAY with frequent roots and rootlets
		Firm orange and grey mottled slightly gravelly CLAY with rare rootlets

0.3	0.62	Taram beneath
Pass/Fail		(X) Pass () Fail
Remarks		
Photo of Spoil		
		
Photo of hole with tape in place		



Photographs

(2 records)

Photograph



Description

Plot 105

Photograph



Description

Plot 105 1

Approved By

No users

ID	GE19455
Project Name	Woodcroft Farm
Client	Vistry
Engineers	
 Fiona Goode	fiona.goode@gesl.net
Project Manager	
 Fiona Goode	fiona.goode@gesl.net
Location	Lovedean
Date	14/12/2021

Details of Hole

(3 records)

Hole ID	Plot 106 (1)
Plot No./Position	Plot 106
Date of Hole	14/12/2021, 09:32
Hole Type	HP
Final Depth	0.62

Ground Conditions

(1 record)

Top Depth	Base Depth	General description of stratum
0	0.62	Brown slightly gravelly slightly sandy CLAY with frequent roots and rootlets Taram beneath

Pass/Fail (X) Pass
() Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

(1 record)

Photograph



Description

Plot 106

Hole ID Plot 106 (2)

Plot No./Position Plot 106

Date of Hole 14/12/2021, 09:35

Hole Type HP

Final Depth 0.59

Ground Conditions

(1 record)

Top Depth	Base Depth	General description of stratum
0	0.59	Brown slightly gravelly slightly sandy CLAY with frequent roots and rootlets Taram beneath

 Pass/Fail (X) Pass
() Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

(1 record)

Photograph



Description

Plot 106

Hole ID

Plot 107

Plot No./Position

Plot 107

Date of Hole

14/12/2021, 09:38

Hole Type

HP

Final Depth

0.61

Ground Conditions

(1 record)

Top Depth	Base Depth	General description of stratum
0	0.61	Brown slightly gravelly slightly sandy CLAY with frequent roots and rootlets Taram beneath

Pass/Fail

☒ Pass
☐ Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

(3 records)

Photograph



Description

Plot 107

Photograph



Description

Plot 107

Photograph



Description

Plots 104-107

Approved By

No users

APPENDIX G

Geochemical Laboratory Results & Statistical Assessments





2683



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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-36877

Issue: 1

Date of Issue: 17/11/2021

Contact: Fiona Goode

Customer Details: GESL
Unit 7
Danworth Farm
Hurstpierpoint
West Sussex BN6 9GL

Quotation No: Q19-01488

Order No: PO-4607

Customer Reference: GE19455

Date Received: 02/11/2021

Date Approved: 17/11/2021

Details: Woodcroft

Approved by:

Mike Varley, General Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 21-36877, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
256116	Plot 119 0.15	29/10/2021	02/11/2021	Silty loam	
256117	Plot 120 0.35	29/10/2021	02/11/2021	Silty clayey loam	
256118	Plot 121 0.45	29/10/2021	02/11/2021	Silty loam	
256119	Plot 122 0.10	29/10/2021	02/11/2021	Silty clayey loam	

Results Summary

Report No.: 21-36877, issue number 1

ELAB Reference				256116	256117	256118	256119
Customer Reference							
Sample ID							
Sample Type				SOIL	SOIL	SOIL	SOIL
Sample Location				Plot 119	Plot 120	Plot 121	Plot 122
Sample Depth (m)				0.15	0.35	0.45	0.10
Sampling Date				29/10/2021	29/10/2021	29/10/2021	29/10/2021
Determinand	Codes	Units	LOD				
Soil sample preparation parameters							
Moisture Content	N	%	0.1	27.7	20.6	27.4	17.3
Material removed	N	%	0.1	12.3	23.4	17.7	15.9
Description of Inert material removed	N		0	Stones	Stones	Stones	Stones
Metals							
Arsenic	M	mg/kg	1	7.0	10.4	6.8	18.0
Beryllium	U	mg/kg	1	< 1.0	< 1.0	< 1.0	1.9
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	0.6
Chromium	M	mg/kg	5	23.2	29.3	21.5	21.1
Copper	M	mg/kg	5	15.7	25.2	17.3	18.1
Lead	M	mg/kg	5	33.2	44.8	39.0	21.5
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	11.8	17.9	11.2	90.5
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium	M	mg/kg	5	37.2	42.4	33.5	36.7
Zinc	M	mg/kg	5	59.5	92.9	99.1	87.3
Anions							
Water Soluble Chloride	M	mg/kg	40	< 40	66	< 40	< 40
Water Soluble Sulphate	M	g/l	0.02	0.06	0.90	0.09	0.06
Inorganics							
Carbonate	N	%	0.1	0.5	n/t	0.8	n/t
Elemental Sulphur	M	mg/kg	20	< 20	< 20	< 20	< 20
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8
Total Sulphide	N	mg/kg	2	< 2	< 2	< 2	< 2
Total Cyanide	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
Acid Soluble Sulphate (SO ₄)	U	%	0.02	0.05	0.26	0.04	0.03
Water Soluble Boron	N	mg/kg	0.5	0.7	0.8	0.8	< 0.5
Miscellaneous							
Electrical Conductivity (CaSO ₄ extract)	N	uS/cm	50	2150	n/t	2140	n/t
Carbon Nitrogen Ratio	N	ratio	0.1	16.3479	n/t	n/t	n/t
Loss on Ignition	M	%	0.01	7.30	n/t	7.50	n/t
pH	M	pH units	0.1	7.8	9.4	8.4	8.2
Density	N	g/ml	0	1.14	n/t	1.15	n/t
Soil Organic Matter	U	%	0.1	n/t	n/t	5.5	n/t
Total Carbon	N	%	0.01	4.2	n/t	n/t	n/t
Total Organic Carbon	N	%	0.01	2.5	1.0	2.7	0.54
Total Nitrogen	N	%	0.01	0.26	n/t	n/t	n/t
Extractable Potassium	N	mg/l	20	194	n/t	235	n/t
Extractable Magnesium	N	mg/l	20	141	n/t	107	n/t
Extractable Phosphate	N	mg/l	1	50	n/t	n/t	n/t
Extractable Calcium	N	mg/l	20	n/t	n/t	4230	n/t
Extractable Sodium	N	mg/l	20	n/t	n/t	38	n/t
Sand content	NS	%	1	25	n/t	27	n/t
Silt content	NS	%	1	45	n/t	45	n/t
Clay content	NS	%	1	30	n/t	28	n/t
Stones > 2mm	NS	%	1	2	n/t	7	n/t
Stones > 20mm	NS	%	1	5	n/t	11	n/t
Stones > 50mm	NS	%	1	17	n/t	n/t	n/t
Stones > 75mm	NS	%	1	n/t	n/t	< 1	n/t
Total Visible Contaminants	N	%	0.01	< 0.01	n/t	< 0.01	n/t
Plastics	N	%	0.01	< 0.01	n/t	< 0.01	n/t
Sharps	N	n/kg	0	0	n/t	0	n/t



Results Summary

2683

Report No.: 21-36877, issue number 1

ELAB Reference				256116	256117	256118	256119
Customer Reference							
Sample ID							
Sample Type				SOIL	SOIL	SOIL	SOIL
Sample Location				Plot 119	Plot 120	Plot 121	Plot 122
Sample Depth (m)				0.15	0.35	0.45	0.10
Sampling Date				29/10/2021	29/10/2021	29/10/2021	29/10/2021
Determinand	Codes	Units	LOD				
Phenols							
Total Phenols	N	mg/kg	6	< 6	< 6	< 6	< 6
Polyaromatic hydrocarbons							
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1	0.2	< 0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	0.2	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1	0.2	< 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4	1.0	< 0.4	< 0.4
BTEX							
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Xylenes	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
MTBE	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
TPH CWG							
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	1.0	< 1.0	< 1.0
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	1.2	< 1.0	< 1.0
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	15.0	< 1.0	< 1.0
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	5.5	< 1.0	< 1.0
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	23.2	1.2	< 1.0
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	1.3	< 1.0	< 1.0
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	3.9	< 1.0	< 1.0
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	42.2	2.9	< 1.0
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	12.4	< 1.0	< 1.0
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	60.6	4.2	< 1.0
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	N	mg/kg	1	< 1.0	83.8	5.5	< 1.0



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Results Summary

Report No.: 21-36877, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
256116	0.15	Plot 119	Brown soil, stones	No asbestos detected	n/t	n/t	n/t	n/t
256117	0.35	Plot 120	Brown soil, stones, crushed concrete	No asbestos detected	n/t	n/t	n/t	n/t
256118	0.45	Plot 121	Brown soil, stones	No asbestos detected	n/t	n/t	n/t	n/t
256119	0.10	Plot 122	Brown soil, stones, chalk	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 21-36877, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Acid neutralisation capacity	N	Air dried sample	03/11/2021		
Extractable cations - BS3882	N	Air dried sample	03/11/2021		ICPMS
Visible Contaminants	N		03/11/2021		
Sulphide	N	As submitted sample	03/11/2021	109	Colorimetry
Hexavalent chromium	N	As submitted sample	03/11/2021	110	Colorimetry
pH	M	Air dried sample	03/11/2021	113	Electromeric
Electrical conductivity of soil	N	Air dried sample.	03/11/2021	114	Electromeric
Acid Soluble Sulphate	U	Air dried sample	04/11/2021	115	Ion Chromatography
Aqua regia extractable metals	M	Air dried sample	03/11/2021	118	ICPMS
Phenols in solids	N	As submitted sample	02/11/2021	121	HPLC
Elemental Sulphur	M	Air dried sample	03/11/2021	122	HPLC
Loss on ignition at 450 deg C	M	Air dried sample	04/11/2021	129	Gravimetry
PAH (GC-FID)	M	As submitted sample	03/11/2021	133	GC-FID
Extr. Phos	N	Air dried sample	03/11/2021	140	ICPMS
Water soluble anions	M	Air dried sample	03/11/2021	172	Ion Chromatography
Low range Aliphatic hydrocarbons soil	N	As submitted sample	03/11/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	03/11/2021	181	GC-MS
BTEX in solids	M	As submitted sample	03/11/2021	181A	GC-MS
Water soluble boron	N	Air dried sample	03/11/2021	202	Colorimetry
Total cyanide	M	As submitted sample	03/11/2021	204	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	04/11/2021	210	IR
TPH CWG soil by gc-gc	M	As submitted sample	02/11/2021	271	
Asbestos identification	U	Air dried sample	04/11/2021	280	Microscopy
Soil organic matter	U	Air dried sample	03/11/2021	BS1377:P3	Titrimetry

Tests marked N are not UKAS accredited

Report Information

Report No.: 21-36877, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination. Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed. ELAB are unable to provide an interpretation or opinion on the content of this report. The results relate only to the sample received. PCB congener results may include any coeluting PCBs Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month

All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
2D	GC-GC - Double coil gas chromatography
#1	EH_Total but with humics mathematically subtracted
#2	EH_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry



2683



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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-37405

Issue: 1

Date of Issue: 03/12/2021

Contact: Fiona Goode

Customer Details: GESL
Unit 7
Danworth Farm
Hurstpierpoint
West Sussex BN6 9GL

Quotation No: Q19-01488

Order No: PO-4684

Customer Reference: GE19455

Date Received: 01/12/2021

Date Approved: 03/12/2021

Details: Woodcroft Farm

Approved by:

Tim Reeve, Quality Officer

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)

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Sample Summary

Report No.: 21-37405, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
259536	Plot 100 (1) 0.40	25/11/2021	01/12/2021	Sandy silty loam	
259537	Plot 100 (2) 0.15	25/11/2021	01/12/2021	Silty loam	
259538	Plot 101 (1) 0.20	25/11/2021	01/12/2021	Silty loam	
259539	Plot 101 (2) 0.45	25/11/2021	01/12/2021	Silty clayey loam	
259540	S/P1 0.30	25/11/2021	01/12/2021	Silty clayey loam	
259541	S/P1 0.60	25/11/2021	01/12/2021	Silty clayey loam	
259542	S/P2 0.10	25/11/2021	01/12/2021	Silty loam	
259543	S/P2 0.30	25/11/2021	01/12/2021	Silty clayey loam	
259544	S/P2 0.60	25/11/2021	01/12/2021	Silty loam	
259545	S/P2 0.80	25/11/2021	01/12/2021	Silty clayey loam	

Results Summary

Report No.: 21-37405, issue number 1

ELAB Reference				259536	259537	259538	259539
Customer Reference							
Sample ID							
Sample Type				SOIL	SOIL	SOIL	SOIL
Sample Location				Plot 100 (1)	Plot 100 (2)	Plot 101 (1)	Plot 101 (2)
Sample Depth (m)				0.40	0.15	0.20	0.45
Sampling Date				25/11/2021	25/11/2021	25/11/2021	25/11/2021
Determinand	Codes	Units	LOD				
Soil sample preparation parameters							
Moisture Content	N	%	0.1	21.0	24.0	24.1	21.0
Material removed	N	%	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	NONE	NONE	NONE	NONE
Metals							
Arsenic	M	mg/kg	1	6.0	n/t	4.6	8.1
Beryllium	U	mg/kg	1	< 1.0	n/t	< 1.0	< 1.0
Cadmium	M	mg/kg	0.5	< 0.5	n/t	< 0.5	< 0.5
Chromium	M	mg/kg	5	18.4	n/t	13.5	18.4
Copper	M	mg/kg	5	15.3	5.2	10.0	13.6
Lead	M	mg/kg	5	46.2	n/t	26.1	31.6
Mercury	M	mg/kg	0.5	< 0.5	n/t	< 0.5	< 0.5
Nickel	M	mg/kg	5	13.4	10.5	8.5	13.3
Selenium	M	mg/kg	1	< 1.0	n/t	< 1.0	< 1.0
Vanadium	M	mg/kg	5	27.3	n/t	24.6	30.3
Zinc	M	mg/kg	5	74.3	43.3	39.6	52.7
Anions							
Water Soluble Chloride	M	mg/kg	40	< 40	n/t	< 40	52
Water Soluble Sulphate	M	g/l	0.02	0.02	n/t	0.04	0.44
Inorganics							
Carbonate	N	%	0.1	n/t	0.8	n/t	n/t
Elemental Sulphur	M	mg/kg	20	< 20	n/t	< 20	< 20
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	n/t	< 0.8	< 0.8
Total Sulphide	N	mg/kg	2	< 2	n/t	< 2	< 2
Total Cyanide	M	mg/kg	1	1.2	n/t	1.3	< 1.0
Acid Soluble Sulphate (SO ₄)	U	%	0.02	0.17	n/t	0.30	0.40
Water Soluble Boron	N	mg/kg	0.5	0.7	n/t	0.9	0.8
Miscellaneous							
Electrical Conductivity (CaSO ₄ extract)	N	uS/cm	50	n/t	2320	n/t	n/t
Carbon Nitrogen Ratio	N	ratio	0.1	n/t	17.7395	n/t	n/t
Loss on Ignition	M	%	0.01	n/t	8.99	n/t	n/t
pH	M	pH units	0.1	7.3	7.0	7.0	10.2
Density	N	g/ml	0	n/t	1.14	n/t	n/t
Total Carbon	N	%	0.01	n/t	5.2	n/t	n/t
Total Organic Carbon	N	%	0.01	2.0	n/t	2.9	1.4
Total Nitrogen	N	%	0.01	n/t	0.29	n/t	n/t
Extractable Potassium	N	mg/l	20	n/t	164	n/t	n/t
Extractable Magnesium	N	mg/l	20	n/t	121	n/t	n/t
Extractable Phosphate	N	mg/l	1	n/t	55	n/t	n/t
Total Visible Contaminants	N	%	0.01	n/t	< 0.01	n/t	n/t
Plastics	N	%	0.01	n/t	< 0.01	n/t	n/t
Sharps	N	n/kg	0	n/t	0	n/t	n/t
Phenols							
Total Phenols	N	mg/kg	6	< 6	n/t	< 6	< 6

Results Summary

Report No.: 21-37405, issue number 1

ELAB Reference	259536	259537	259538	259539
Customer Reference				
Sample ID				
Sample Type	SOIL	SOIL	SOIL	SOIL
Sample Location	Plot 100 (1)	Plot 100 (2)	Plot 101 (1)	Plot 101 (2)
Sample Depth (m)	0.40	0.15	0.20	0.45
Sampling Date	25/11/2021	25/11/2021	25/11/2021	25/11/2021

Determinand	Codes	Units	LOD				
Polyaromatic hydrocarbons							
Naphthalene	M	mg/kg	0.1	< 0.1	n/t	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	n/t	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	n/t	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	n/t	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	n/t	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	n/t	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1	n/t	< 0.1	0.1
Pyrene	M	mg/kg	0.1	< 0.1	n/t	< 0.1	0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	n/t	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1	n/t	< 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	n/t	< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	n/t	< 0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	n/t	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	n/t	< 0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	n/t	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	n/t	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4	n/t	< 0.4	< 0.4
BTEX							
Benzene	M	ug/kg	10	< 10.0	n/t	< 10.0	< 10.0
Toluene	M	ug/kg	10	< 10.0	n/t	< 10.0	< 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	n/t	< 10.0	< 10.0
Xylenes	M	ug/kg	10	< 10.0	n/t	< 10.0	< 10.0
MTBE	N	ug/kg	10	< 10.0	n/t	< 10.0	< 10.0
TPH CWG							
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	n/t	< 0.01	< 0.01
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	n/t	< 0.01	< 0.01
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	n/t	< 1.0	< 1.0
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	n/t	< 1.0	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	n/t	< 1.0	< 1.0
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	n/t	< 1.0	< 1.0
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	n/t	< 1.0	12.9
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	n/t	< 1.0	9.5
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	n/t	< 1.0	23.5
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	n/t	< 0.01	< 0.01
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	n/t	< 0.01	< 0.01
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	n/t	< 1.0	< 1.0
>C10-C12 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	n/t	< 1.0	< 1.0
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	n/t	< 1.0	< 1.0
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	n/t	< 1.0	1.9
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	n/t	< 1.0	12.6
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	n/t	< 1.0	13.9
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	n/t	< 1.0	29.1
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	N	mg/kg	1	1.3	n/t	< 1.0	52.7

Results Summary

Report No.: 21-37405, issue number 1

ELAB Reference				259540	259541	259542	259543
Customer Reference							
Sample ID							
Sample Type				SOIL	SOIL	SOIL	SOIL
Sample Location				S/P1	S/P1	S/P2	S/P2
Sample Depth (m)				0.30	0.60	0.10	0.30
Sampling Date				25/11/2021	25/11/2021	25/11/2021	25/11/2021
Determinand	Codes	Units	LOD				
Soil sample preparation parameters							
Moisture Content	N	%	0.1	21.9	23.3	22.7	18.5
Material removed	N	%	0.1	< 0.1	< 0.1	37.7	< 0.1
Description of Inert material removed	N		0	NONE	NONE	STONES	NONE
Metals							
Arsenic	M	mg/kg	1	7.5	7.0	5.6	8.5
Beryllium	U	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	17.6	17.4	18.9	20.7
Copper	M	mg/kg	5	9.3	< 5.0	12.5	17.5
Lead	M	mg/kg	5	37.2	27.5	25.3	28.2
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	11.3	9.0	9.5	14.0
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium	M	mg/kg	5	32.1	29.8	33.9	32.8
Zinc	M	mg/kg	5	44.9	41.1	36.7	57.0
Anions							
Water Soluble Chloride	M	mg/kg	40	46	< 40	41	< 40
Water Soluble Sulphate	M	g/l	0.02	0.10	0.05	0.04	0.07
Inorganics							
Carbonate	N	%	0.1	n/t	0.5	n/t	n/t
Elemental Sulphur	M	mg/kg	20	< 20	< 20	< 20	< 20
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8
Total Sulphide	N	mg/kg	2	< 2	< 2	< 2	< 2
Total Cyanide	M	mg/kg	1	1.6	1.1	1.5	1.4
Acid Soluble Sulphate (SO4)	U	%	0.02	0.31	0.28	0.28	0.19
Water Soluble Boron	N	mg/kg	0.5	1.0	0.9	1.1	0.7
Miscellaneous							
Electrical Conductivity (CaSO4 extract)	N	uS/cm	50	n/t	2480	n/t	n/t
Carbon Nitrogen Ratio	N	ratio	0.1	n/t	16.5144	n/t	n/t
Loss on Ignition	M	%	0.01	n/t	7.49	n/t	n/t
pH	M	pH units	0.1	7.8	7.7	7.3	7.7
Density	N	g/ml	0	n/t	1.16	n/t	n/t
Total Carbon	N	%	0.01	n/t	4.3	n/t	n/t
Total Organic Carbon	N	%	0.01	1.9	2.1	2.5	1.4
Total Nitrogen	N	%	0.01	n/t	0.26	n/t	n/t
Extractable Potassium	N	mg/l	20	n/t	152	n/t	n/t
Extractable Magnesium	N	mg/l	20	n/t	107	n/t	n/t
Extractable Phosphate	N	mg/l	1	n/t	63	n/t	n/t
Total Visible Contaminants	N	%	0.01	n/t	< 0.01	n/t	n/t
Plastics	N	%	0.01	n/t	< 0.01	n/t	n/t
Sharps	N	n/kg	0	n/t	0	n/t	n/t
Phenols							
Total Phenols	N	mg/kg	6	< 6	< 6	< 6	< 6

Results Summary

2683

Report No.: 21-37405, issue number 1

ELAB Reference	259540	259541	259542	259543
Customer Reference				
Sample ID				
Sample Type	SOIL	SOIL	SOIL	SOIL
Sample Location	S/P1	S/P1	S/P2	S/P2
Sample Depth (m)	0.30	0.60	0.10	0.30
Sampling Date	25/11/2021	25/11/2021	25/11/2021	25/11/2021

Determinand	Codes	Units	LOD				
Polyaromatic hydrocarbons							
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4	< 0.4	< 0.4	< 0.4
BTEX							
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Xylenes	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
MTBE	N	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
TPH CWG							
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	1.1
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1	6.1	< 1.0	< 1.0	1.7
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1	1.4	< 1.0	< 1.0	1.4
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	7.5	1.3	< 1.0	5.3
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	22.4
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1	2.5	1.2	< 1.0	3.7
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	3.9	1.9	< 1.0	28.1
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	N	mg/kg	1	11.4	3.2	< 1.0	33.3

Results Summary

2683

Report No.: 21-37405, issue number 1

ELAB Reference	259544	259545
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	S/P2	S/P2
Sample Depth (m)	0.60	0.80
Sampling Date	25/11/2021	25/11/2021

Determinand	Codes	Units	LOD		
Soil sample preparation parameters					
Moisture Content	N	%	0.1	15.8	21.3
Material removed	N	%	0.1	27.9	< 0.1
Description of Inert material removed	N		0	STONES	NONE
Metals					
Arsenic	M	mg/kg	1	n/t	6.6
Beryllium	U	mg/kg	1	n/t	< 1.0
Cadmium	M	mg/kg	0.5	n/t	< 0.5
Chromium	M	mg/kg	5	n/t	16.4
Copper	M	mg/kg	5	< 5.0	< 5.0
Lead	M	mg/kg	5	n/t	19.6
Mercury	M	mg/kg	0.5	n/t	< 0.5
Nickel	M	mg/kg	5	12.3	13.0
Selenium	M	mg/kg	1	n/t	< 1.0
Vanadium	M	mg/kg	5	n/t	26.1
Zinc	M	mg/kg	5	44.2	40.5
Anions					
Water Soluble Chloride	M	mg/kg	40	n/t	< 40
Water Soluble Sulphate	M	g/l	0.02	n/t	< 0.02
Inorganics					
Carbonate	N	%	0.1	0.8	n/t
Elemental Sulphur	M	mg/kg	20	n/t	< 20
Hexavalent Chromium	N	mg/kg	0.8	n/t	< 0.8
Total Sulphide	N	mg/kg	2	n/t	< 2
Total Cyanide	M	mg/kg	1	n/t	1.1
Acid Soluble Sulphate (SO4)	U	%	0.02	n/t	0.10
Water Soluble Boron	N	mg/kg	0.5	n/t	< 0.5
Miscellaneous					
Electrical Conductivity (CaSO4 extract)	N	uS/cm	50	2380	n/t
Carbon Nitrogen Ratio	N	ratio	0.1	17.0185	n/t
Loss on Ignition	M	%	0.01	5.55	n/t
pH	M	pH units	0.1	7.1	7.2
Density	N	g/ml	0	1.12	n/t
Total Carbon	N	%	0.01	3.2	n/t
Total Organic Carbon	N	%	0.01	n/t	1.4
Total Nitrogen	N	%	0.01	0.19	n/t
Extractable Potassium	N	mg/l	20	121	n/t
Extractable Magnesium	N	mg/l	20	73	n/t
Extractable Phosphate	N	mg/l	1	76	n/t
Total Visible Contaminants	N	%	0.01	< 0.01	n/t
Plastics	N	%	0.01	< 0.01	n/t
Sharps	N	n/kg	0	0	n/t
Phenols					
Total Phenols	N	mg/kg	6	n/t	< 6

Results Summary

Report No.: 21-37405, issue number 1

ELAB Reference	259544	259545
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	S/P2	S/P2
Sample Depth (m)	0.60	0.80
Sampling Date	25/11/2021	25/11/2021

Determinand	Codes	Units	LOD		
Polyaromatic hydrocarbons					
Naphthalene	M	mg/kg	0.1	n/t	< 0.1
Acenaphthylene	M	mg/kg	0.1	n/t	< 0.1
Acenaphthene	M	mg/kg	0.1	n/t	< 0.1
Fluorene	M	mg/kg	0.1	n/t	< 0.1
Phenanthrene	M	mg/kg	0.1	n/t	< 0.1
Anthracene	M	mg/kg	0.1	n/t	< 0.1
Fluoranthene	M	mg/kg	0.1	n/t	< 0.1
Pyrene	M	mg/kg	0.1	n/t	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	n/t	< 0.1
Chrysene	M	mg/kg	0.1	n/t	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	n/t	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	n/t	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	n/t	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	n/t	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	n/t	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	n/t	< 0.1
Total PAH(16)	M	mg/kg	0.4	n/t	< 0.4
BTEX					
Benzene	M	ug/kg	10	n/t	< 10.0
Toluene	M	ug/kg	10	n/t	< 10.0
Ethylbenzene	M	ug/kg	10	n/t	< 10.0
Xylenes	M	ug/kg	10	n/t	< 10.0
MTBE	N	ug/kg	10	n/t	< 10.0
TPH CWG					
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	n/t	< 0.01
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	n/t	< 0.01
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	n/t	< 1.0
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1	n/t	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	M	mg/kg	1	n/t	< 1.0
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1	n/t	1.0
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1	n/t	26.5
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1	n/t	7.1
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	n/t	35.8
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	n/t	< 0.01
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	n/t	< 0.01
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	n/t	< 1.0
>C10-C12 Aromatic (EH_2D_AR)	M	mg/kg	1	n/t	< 1.0
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1	n/t	< 1.0
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1	n/t	1.1
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1	n/t	4.6
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1	n/t	1.5
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	n/t	7.5
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	N	mg/kg	1	n/t	43.3



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Results Summary
Report No.: 21-37405, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
259536	0.40	Plot 100 (1)	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
259538	0.20	Plot 101 (1)	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
259539	0.45	Plot 101 (2)	Brown Soil,Stones,Wood,Plastic	No asbestos detected	n/t	n/t	n/t	n/t
259540	0.30	S/P1	Brown Soil,Stones,Brick,Organic	No asbestos detected	n/t	n/t	n/t	n/t
259541	0.60	S/P1	Brown soil	No asbestos detected	n/t	n/t	n/t	n/t
259542	0.10	S/P2	Brown Soil,Stones,Organic	No asbestos detected	n/t	n/t	n/t	n/t
259543	0.30	S/P2	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
259545	0.80	S/P2	Brown Soil,Stones,Organic	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 21-37405, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Acid neutralisation capacity	N	Air dried sample	03/12/2021		
Extractable cations - BS3882	N	Air dried sample	03/12/2021		ICPMS
Visible Contaminants	N		02/12/2021		
Sulphide	N	As submitted sample	02/12/2021	109	Colorimetry
Hexavalent chromium	N	As submitted sample	02/12/2021	110	Colorimetry
pH	M	Air dried sample	03/12/2021	113	Electromeric
Electrical conductivity of soil	N	Air dried sample.	03/12/2021	114	Electromeric
Acid Soluble Sulphate	U	Air dried sample	03/12/2021	115	Ion Chromatography
Aqua regia extractable metals	M	Air dried sample	02/12/2021	118	ICPMS
Phenols in solids	N	As submitted sample	02/12/2021	121	HPLC
Elemental Sulphur	M	Air dried sample	02/12/2021	122	HPLC
Loss on ignition at 450 deg C	M	Air dried sample	03/12/2021	129	Gravimetry
PAH (GC-FID)	M	As submitted sample	02/12/2021	133	GC-FID
Extr. Phos	N	Air dried sample	03/12/2021	140	ICPMS
Water soluble anions	M	Air dried sample	02/12/2021	172	Ion Chromatography
Low range Aliphatic hydrocarbons soil	N	As submitted sample	03/12/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	03/12/2021	181	GC-MS
BTEX in solids	M	As submitted sample	03/12/2021	181A	GC-MS
Water soluble boron	N	Air dried sample	02/12/2021	202	Colorimetry
Total cyanide	M	As submitted sample	03/12/2021	204	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	03/12/2021	210	IR
TPH CWG soil by gc-gc	M	As submitted sample	02/12/2021	271	
Asbestos identification	U	Air dried sample	02/12/2021	280	Microscopy

Tests marked N are not UKAS accredited

Report Information

Report No.: 21-37405, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination. Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed. ELAB are unable to provide an interpretation or opinion on the content of this report. The results relate only to the sample received. PCB congener results may include any coeluting PCBs Uncertainty of measurement for the determinands tested are available upon request Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month

All water samples will be retained for 7 days following the date of the test report

Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
2D	GC-GC - Double coil gas chromatography
#1	EH_Total but with humics mathematically subtracted
#2	EH_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry

Client/client ref:
Project ref: GE19455
Site ref: Woodcroft Farm
Data description:
Contaminant(s): Beryllium
Test scenario: Planning
Date: 17 November 2021
User details: FG

Beryllium (mg/kg)														
Critical concentration, C _c	1.72													
Notes														
Full dataset size	13	0	0	0	0	0	0	0	0	0	0	0	0	0
Outliers present?	Yes													
Number of outliers temporarily excluded	0													
Number removed by filter	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sample size, n	13	0	0	0	0	0	0	0	0	0	0	0	0	0
Sample mean, $\bar{x}$	0.60769231	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
Standard deviation, s	0.38829014													
Number of non-detects	12	0	0	0	0	0	0	0	0	0	0	0	0	0
Set non-detect values to:	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit	Half detection limit
Distribution	Non-normal													
Statistical approach	Auto: Chebychev	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto

Test scenario:	Planning: is true mean lower than critical concentration ($\mu < C_c$)?	Evidence level required:	95%	Use Normal distribution to test for outliers	
t statistic, t ₀ (or k ₀)	-10.32857143				
Upper confidence limit (on true mean concentration, μ)	1.07711219				
Evidence level	99%				
Base decision on:	evidence level				
Result	$\mu < C_c$				
Select dataset	☒ Y	☐ Y	☐ Y	☐ Y	☐ Y

Back to data

Go to outlier test

Go to normality test

Show individual summary

Test Results

Beryllium (mg/kg)

Client/client ref:

Project ref: GE19455

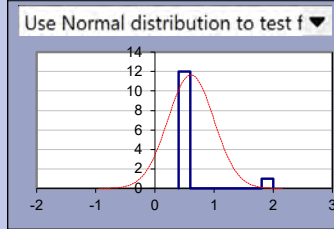
Site ref: Woodcroft Farm

Data description:

Date: 17-Nov-2021

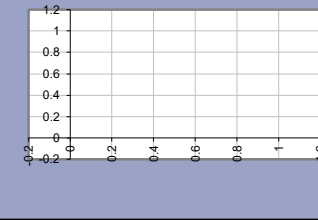
User details: FG

Datase	Beryllium (mg/kg)
Sample mean (mg/kg), $\bar{x}$	0.6077
Sample standard deviation, s	0.3883
Sample size, n	13
Critical concentration, Cc (mg/kg)	1.72



Outliers & non-detects

Outliers present?	Yes
Significance level	5%
Outliers excluded	0
Non-detects	12

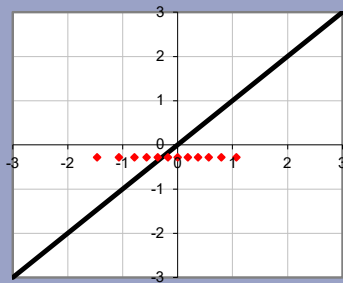


Normality test

Significance level 5%

Non-normal distribution

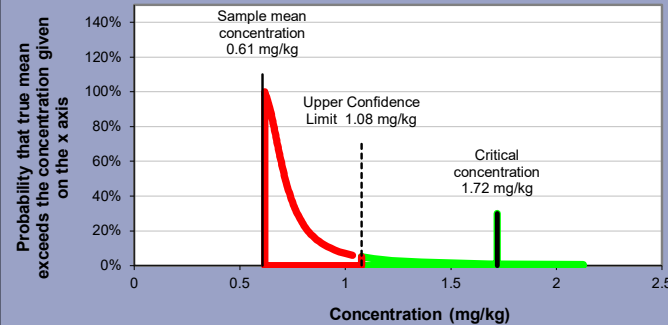
Use: Auto: Chebychev



Test scenario: Planning: is true mean lower than critical concentration ($\mu < C_c$)?

Null hypothesis: The true mean concentration is equal to or greater than the critical concentration: $\mu \geq C_c$

Alternative hypothesis: The true mean concentration is less than the critical concentration: $\mu < C_c$



Evidence against Null hypothesis:

99%

Base decision on: evidence level

Evidence level required:

95%

Balance of probability?

N/A

Reject Null Hypothesis?

Yes

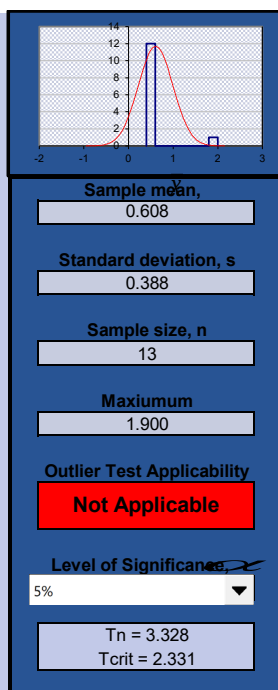
$\mu < C_c$ (re this dataset)

Back to data

Back to summary

Go to outlier test

Go to normality test

[illegible]

The screenshot displays a software interface for data analysis. At the top, a boxplot shows the distribution of 'Beryllium (mg/kg)' with a median around 0.2, a mean around 0.3, and several outliers. Below the boxplot, a table lists the outliers: 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.0, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9, 3.0, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9, 4.0, 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 5.0, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9, 6.0, 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.8, 6.9, 7.0, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9, 8.0, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6, 8.7, 8.8, 8.9, 9.0, 9.1, 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, 9.8, 9.9, 10.0. The table has columns for 'Outlier', 'Value', and 'Count'. The 'Outlier' column is marked with 'Yes' for all values. The 'Value' column contains the numerical values, and the 'Count' column contains the frequency of each value. Below the table, a section titled 'Dataset' shows 'Beryllium (mg/kg)' and a dropdown menu set to 'Normal'. A button labeled 'Us' is next to it. Below this, a section titled 'Exclude identified outliers' is shown. Below that, a section titled 'Show individual summary' is shown. At the bottom, there are two buttons: 'Back to summary' and 'Back to data'.

Outliers?
Yes
(None selected)

Dataset Beryllium (mg/kg)

Us **Normal** distribution to test for outliers

Exclude identified outliers

Show individual summary

Back to summary

Back to data

