



Description Trees root zone

Hole ID	HPA2
Plot No./Position	Block A
Date of Hole	16/07/2021, 12:42
Hole Type	HP
Final Depth	0.7

Ground Conditions

(2 records)

Top Depth	Base Depth	General description of stratum
0	0.3	Dark brown gravelly SILT with some rootlets and occasional brick fragments. Gravel is fine to coarse sub angular flint.

0.3	0.7	Brown very clayey sandy cobbly flint GRAVEL. Sand is fine to coarse. Gravel is fine to coarse sub angular flint.
-----	-----	--

Samples

(2 records)

Top Depth	Base Depth	Sample type	Sample reference
0.2		ES	1
0.5		ES	2

Pass/Fail

☒ Pass

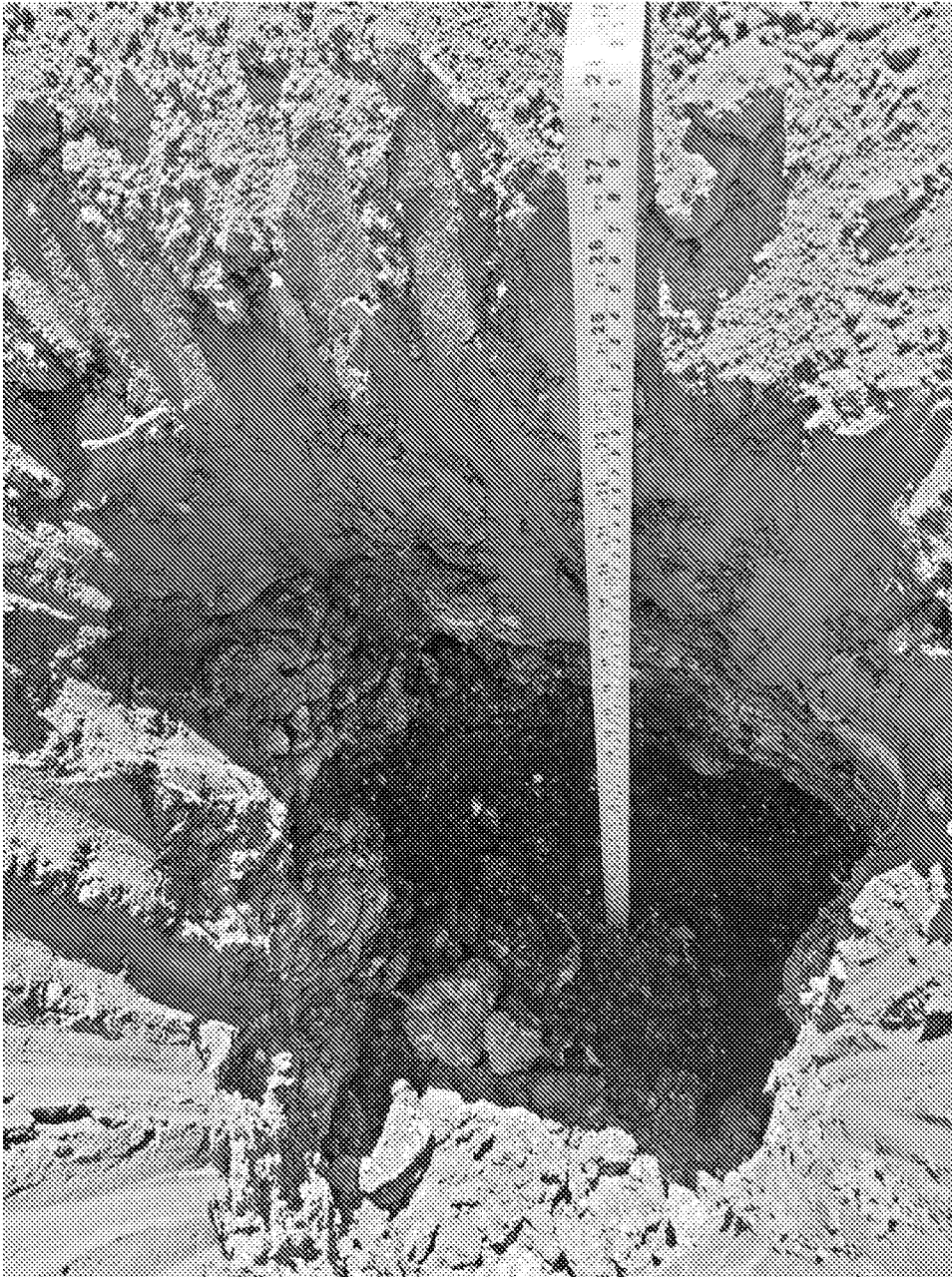
☐ Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

(1 record)

Photograph



Description View E across Block A

Hole ID	HPA3
Plot No./Position	Block A
Date of Hole	16/07/2021, 12:50
Hole Type	HP
Final Depth	0.65

Ground Conditions

(2 records)

Top Depth	Base Depth	General description of stratum
0	0.3	Dark brown gravelly SILT with some rootlets. Gravel is fine to coarse sub rounded flint.
0.3	0.65	Brown very clayey sandy cobbly flint GRAVEL. Sand is fine to coarse.

Samples

(2 records)

Top Depth	Base Depth	Sample type	Sample reference
0.2		ES	1
0.4		ES	2

Pass/Fail

(X) Pass
() Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

(6 records)

Photograph



Description

View W across plot

Photograph



Description E side of block A incomplete

Photograph



Description N side of block A incomplete

Photograph



Description

Trees - root zone

Photograph



Description

SE area incomplete

Photograph



Description

N side of block A incomplete

Approved By

No users

ID	GE18103
Project Name	Cornfield Close
Client	Thakeham Homes
Engineers	
 Katie O'Dea	
Project Manager	
 Laura Legate	
Location	Cornfield Close, Littlehampton
Date	26/07/2021

Details of Hole

(3 records)

Hole ID	HPA4
Plot No./Position	Block A
Date of Hole	26/07/2021, 08:51
Hole Type	HP
Final Depth	0.57

Ground Conditions

(3 records)

Top Depth	Base Depth	General description of stratum
0	0.15	Dark brown slightly gravelly fine SAND with some rootlets. Gravel is fine to medium sub rounded flint.
0.15	0.4	Orangish brown clayey gravelly SAND with rare rootlets and some brick fragments. Gravel is fine to medium sub angular flint.
0.4	0.57	Brown clayey gravelly SAND with rare rootlets and frequent brick and concrete fragments. Gravel is fine to coarse sub angular flint.

Samples

(2 records)

Top Depth	Base Depth	Sample type	Sample reference
0.1		ES	1
0.5		ES	2

Pass/Fail (X) Pass
() Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

(1 record)

Photograph



Description Eastern side of Block A.

Hole ID	HPA6
Plot No./Position	Block A
Date of Hole	26/07/2021, 09:06
Hole Type	HP
Final Depth	0.6

Ground Conditions

(1 record)

Top Depth	Base Depth	General description of stratum
0	0.6	Dark brown slightly gravelly SAND with some rootlets and roots 1-3mm and rare brick fragments.

Samples

(1 record)

Top Depth	Base Depth	Sample type	Sample reference
0.3		ES	1

Pass/Fail

(X) Pass
() Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

(1 record)

Photograph



Description Western side of block A.

Hole ID	HPA5
Plot No./Position	Block A
Date of Hole	26/07/2021, 09:11
Hole Type	HP
Final Depth	0.4

Ground Conditions

(2 records)

Top Depth	Base Depth	General description of stratum
0	0.2	Dark brown slightly gravelly SAND with some rootlets. Gravel is fine to coarse sub rounded flint.
0.2	0.4	Greyish brown clayey gravelly SAND with some rootlets and rare metal bar. Gravel is fine to coarse sub angular flint.

Samples

(2 records)

Top Depth	Base Depth	Sample type	Sample reference
0.15		ES	1
0.3		ES	2

Pass/Fail

(X) Pass

() Fail

Remarks

Photo of Spoil



Photo of hole with tape in place



Photographs

(3 records)

Photograph



Description

N side of block A.

Photograph



Description

N side of block A.

Photograph



Description

One area to be filled?

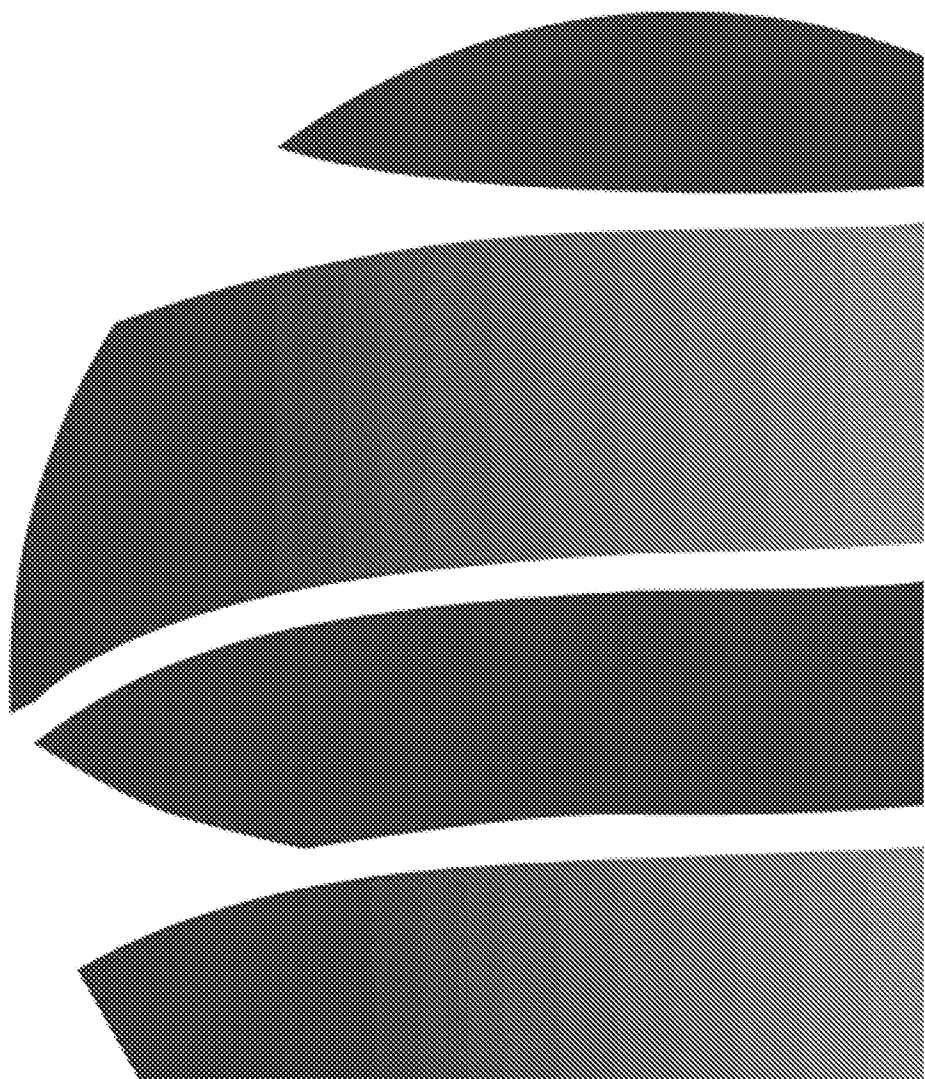
Approved By

No users



APPENDIX F

Independent Geochemical Laboratory Test Results





2683



Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9PY

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-34932

Issue: 1

Date of Issue: 28/07/2021

Contact: Fiona Goode

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

Quotation No: Q19-01488

Order No: PO-4266

Customer Reference: GE18103

Date Received: 19/07/2021

Date Approved: 28/07/2021

Details: Cornfield Close

Approved by:

Mike Varley, Technical 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.: 21-34932, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
245094	HPA1 0.10	16/07/2021	21/07/2021	Silty loam	
245095	HPA1 0.40	16/07/2021	21/07/2021	Silty loam	
245096	HPA2 0.20	16/07/2021	21/07/2021	Silty loam	
245097	HPA2 0.50	16/07/2021	21/07/2021	Silty loam	
245098	HPA3 0.20	16/07/2021	21/07/2021	Silty loam	
245099	HPA3 0.40	16/07/2021	21/07/2021		

Results Summary

Report No.: 21-34932, issue number 1

ELAB Reference				245094	245095	245096	245097	245098
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				HPA1	HPA1	HPA2	HPA2	HPA3
Sample Depth (m)				0.10	0.40	0.20	0.50	0.20
Sampling Date				16/07/2021	16/07/2021	16/07/2021	16/07/2021	16/07/2021
Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	17.6	15.5	16.9	56.7	14.3
Description of Inert material removed	N		0	Stones	Stones	Stones	Stones	Stones
Metals								
Arsenic	M	mg/kg	1	n/t	13.2	9.5	n/t	9.0
Beryllium	U	mg/kg	1	n/t	< 1.0	< 1.0	n/t	< 1.0
Cadmium	M	mg/kg	0.5	n/t	< 0.5	< 0.5	n/t	< 0.5
Chromium	M	mg/kg	5	n/t	26.2	17.3	n/t	16.0
Copper	M	mg/kg	5	24.9	38.6	24.2	20.5	22.6
Lead	M	mg/kg	5	n/t	143	34.5	n/t	29.6
Mercury	M	mg/kg	0.5	n/t	< 0.5	< 0.5	n/t	< 0.5
Nickel	M	mg/kg	5	9.5	16.4	9.7	29.0	8.8
Selenium	M	mg/kg	1	n/t	< 1.0	< 1.0	n/t	< 1.0
Vanadium	M	mg/kg	5	n/t	39.4	25.9	n/t	23.9
Zinc	M	mg/kg	5	62.9	141	63.0	74.1	58.9
Anions								
Water Soluble Chloride	M	mg/kg	40	n/t	< 40	< 40	n/t	< 40
Water Soluble Sulphate	M	g/l	0.02	n/t	0.24	0.04	n/t	0.03
Inorganics								
Carbonate	N	%	0.1	0.8	n/t	n/t	0.8	n/t
Elemental Sulphur	M	mg/kg	20	n/t	< 20	< 20	n/t	< 20
Hexavalent Chromium	N	mg/kg	0.8	n/t	< 0.8	< 0.8	n/t	< 0.8
Total Sulphide	N	mg/kg	2	n/t	< 2	< 2	n/t	< 2
Total Cyanide	M	mg/kg	1	n/t	< 1.0	< 1.0	n/t	< 1.0
Acid Soluble Sulphate (SO4)	U	%	0.02	n/t	0.06	0.03	n/t	0.03
Water Soluble Boron	N	mg/kg	0.5	n/t	1.1	0.9	n/t	0.8
Miscellaneous								
Electrical Conductivity (CaSO4 extract)	N	uS/cm	50	2410	n/t	n/t	2370	n/t
Carbon Nitrogen Ratio	N	ratio	0.1	16.7224	n/t	n/t	n/t	n/t
Loss On Ignition (450°C)	M	%	0.01	4.24	n/t	n/t	3.33	n/t
pH	M	pH units	0.1	7.7	7.8	8.2	8.2	8.1
Density	N	g/ml	0	1.12	n/t	n/t	1.12	n/t
Soil Organic Matter	U	%	0.1	n/t	n/t	n/t	1.2	n/t
Total Carbon	N	%	0.01	2.5	n/t	n/t	n/t	n/t
Total Organic Carbon	N	%	0.01	n/t	1.1	1.0	n/t	1.0
Total Nitrogen	N	%	0.01	0.15	n/t	n/t	n/t	n/t
Extractable Potassium	N	mg/l	20	107	n/t	n/t	169	n/t
Extractable Magnesium	N	mg/l	20	23	n/t	n/t	61	n/t
Extractable Phosphate	N	mg/l	1	82	n/t	n/t	n/t	n/t
Extractable Calcium	N	mg/l	20	n/t	n/t	n/t	5290	n/t
Extractable Sodium	N	mg/l	20	n/t	n/t	n/t	23	n/t
Sand content	NS	%	1	47	n/t	n/t	24	n/t
Silt content	NS	%	1	37	n/t	n/t	49	n/t
Clay content	NS	%	1	16	n/t	n/t	27	n/t
Stones > 2mm	NS	%	1	14	n/t	n/t	24	n/t
Stones > 20mm	NS	%	1	15	n/t	n/t	11	n/t
Stones > 50mm	NS	%	1	< 1	n/t	n/t	n/t	n/t
Stones > 75mm	NS	%	1	n/t	n/t	n/t	< 1	n/t
Total Visible Contaminants	N	%	0.01	< 0.01	n/t	n/t	< 0.01	n/t
Plastics	N	%	0.01	< 0.01	n/t	n/t	< 0.01	n/t
Sharps	N	n/kg	0	0	n/t	n/t	0	n/t
Phenols								
Total Phenols	N	mg/kg	6	n/t	< 6	< 6	n/t	< 6

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The Environmental Laboratory Ltd. Reg. No. 3882193

Results Summary

Report No.: 21-34932, issue number 1

ELAB Reference				245094	245095	245096	245097	245098
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				HPA1	HPA1	HPA2	HPA2	HPA3
Sample Depth (m)				0.10	0.40	0.20	0.50	0.20
Sampling Date				16/07/2021	16/07/2021	16/07/2021	16/07/2021	16/07/2021
Determinand	Codes	Units	LOD					
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	n/t	< 0.1	< 0.1	n/t	< 0.1
Acenaphthylene	M	mg/kg	0.1	n/t	0.2	< 0.1	n/t	< 0.1
Acenaphthene	M	mg/kg	0.1	n/t	< 0.1	< 0.1	n/t	< 0.1
Fluorene	M	mg/kg	0.1	n/t	< 0.1	< 0.1	n/t	< 0.1
Phenanthrene	M	mg/kg	0.1	n/t	1.0	< 0.1	n/t	< 0.1
Anthracene	M	mg/kg	0.1	n/t	0.3	< 0.1	n/t	< 0.1
Fluoranthene	M	mg/kg	0.1	n/t	2.5	< 0.1	n/t	< 0.1
Pyrene	M	mg/kg	0.1	n/t	2.2	< 0.1	n/t	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	n/t	1.3	< 0.1	n/t	< 0.1
Chrysene	M	mg/kg	0.1	n/t	1.6	< 0.1	n/t	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	n/t	1.7	< 0.1	n/t	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	n/t	1.4	< 0.1	n/t	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	n/t	1.6	< 0.1	n/t	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	n/t	1.2	< 0.1	n/t	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	n/t	0.3	< 0.1	n/t	< 0.1
Benzo(g,h,i)perylene	M	mg/kg	0.1	n/t	1.2	< 0.1	n/t	< 0.1
Total PAH(16)	M	mg/kg	0.4	n/t	16.7	< 0.4	n/t	< 0.4
BTEX								
Benzene	M	ug/kg	10	n/t	< 10.0	< 10.0	n/t	< 10.0
Toluene	M	ug/kg	10	n/t	< 10.0	< 10.0	n/t	< 10.0
Ethylbenzene	M	ug/kg	10	n/t	< 10.0	< 10.0	n/t	< 10.0
Xylenes	M	ug/kg	10	n/t	< 10.0	< 10.0	n/t	< 10.0
MTBE	N	ug/kg	10	n/t	< 10.0	< 10.0	n/t	< 10.0
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	< 0.01	< 0.01	n/t	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	< 0.01	< 0.01	n/t	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	< 1.0
>C10-C12 Aliphatic	M	mg/kg	1	n/t	< 1.0	< 1.0	n/t	< 1.0
>C12-C16 Aliphatic	M	mg/kg	1	n/t	< 1.0	< 1.0	n/t	< 1.0
>C16-C21 Aliphatic	M	mg/kg	1	n/t	< 1.0	< 1.0	n/t	< 1.0
>C21-C35 Aliphatic	M	mg/kg	1	n/t	3.1	< 1.0	n/t	< 1.0
>C35-C40 Aliphatic	M	mg/kg	1	n/t	< 1.0	< 1.0	n/t	< 1.0
Total aliphatic hydrocarbons (>C5 - C40)	N	mg/kg	1	n/t	4.8	< 1.0	n/t	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	< 0.01	< 0.01	n/t	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	< 0.01	< 0.01	n/t	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	< 1.0
>C10-C12 Aromatic	M	mg/kg	1	n/t	< 1.0	< 1.0	n/t	< 1.0
>C12-C16 Aromatic	M	mg/kg	1	n/t	< 1.0	< 1.0	n/t	< 1.0
>C16-C21 Aromatic	M	mg/kg	1	n/t	4.2	< 1.0	n/t	< 1.0
>C21-C35 Aromatic	M	mg/kg	1	n/t	25.4	< 1.0	n/t	< 1.0
>C35-C40 Aromatic	M	mg/kg	1	n/t	2.7	< 1.0	n/t	< 1.0
Total aromatic hydrocarbons (>C5 - C40)	N	mg/kg	1	n/t	33.6	< 1.0	n/t	< 1.0
Total petroleum hydrocarbons (>C5 - C40)	N	mg/kg	1	n/t	38.4	< 1.0	n/t	< 1.0

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The Environmental Laboratory Ltd. Reg. No. 3882193



Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY

Results Summary

Report No.: 21-34932, 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 (%)
245095	0.40	HPA1	Brown soil, stones, clinker	No asbestos detected	n/t	n/t	n/t	n/t
245096	0.20	HPA2	Brown soil, stones, clinker	No asbestos detected	n/t	n/t	n/t	n/t
245098	0.20	HPA3	Brown soil, stones	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 21-34932, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Acid neutralisation capacity	N	Air dried sample	26/07/2021		
Extractable cations - BS3882	N	Air dried sample	27/07/2021		ICPMS
Visible Contaminants	N		22/07/2021		
Sulphide	N	As submitted sample	22/07/2021	109	Colorimetry
Hexavalent chromium	N	As submitted sample	22/07/2021	110	Colorimetry
pH	M	Air dried sample	22/07/2021	113	Electromeric
Electrical conductivity of soil	N	Air dried sample	28/07/2021	114	Electromeric
Acid Soluble Sulphate	U	Air dried sample	23/07/2021	115	Ion Chromatography
Phenols in solids	N	As submitted sample	22/07/2021	121	HPLC
Elemental Sulphur	M	Air dried sample	27/07/2021	122	HPLC
Loss on ignition at 450 deg C	M	Air dried sample	22/07/2021	129	Gravimetry
PAH (GC-FID)	M	As submitted sample	22/07/2021	133	GC-FID
Extr. Phos	N	Air dried sample	27/07/2021	140	ICPMS
Water soluble anions	M	Air dried sample	22/07/2021	172	Ion Chromatography
Low range Aliphatic hydrocarbons soil	N	As submitted sample	23/07/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	23/07/2021	181	GC-MS
BTEX in solids	M	As submitted sample	23/07/2021	181A	GC-MS
Water soluble boron	N	Air dried sample	22/07/2021	202	Colorimetry
Total cyanide	M	As submitted sample	23/07/2021	204	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	23/07/2021	210	IR
TPH CWG soil by gc-gc	M	As submitted sample	22/07/2021	271	
Asbestos identification	U	Air dried sample	22/07/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	22/07/2021	300	ICPMS
Soil organic matter	U	Air dried sample	22/07/2021	BS1377:P3	Titrimetry

Tests marked N are not UKAS accredited



Report Information

Report No.: 21-34932, 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



Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-35064

Issue: Preliminary Report

Date of Issue: 02/08/2021

Contact: Fiona Goode

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

Quotation No: Q19-01488

Order No: PO-4279

Customer Reference: GE18103

Date Received: 26/07/2021

Date Approved: Not Approved

Details: Cornfield Close

Approved by:

Tim Reeve, Quality Officer

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Sample Summary

Report No.: 21-35064, issue number 0

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
245844	HPA4 0.10	26/07/2021	26/07/2021	Sandy silty loam	
245845	HPA4 0.50	26/07/2021	26/07/2021	Sandy silty loam	
245846	HPA5 0.15	26/07/2021	26/07/2021	Sandy silty loam	
245847	HPA5 0.30	26/07/2021	26/07/2021	Sandy silty loam	
245848	HPA6 0.30	26/07/2021	26/07/2021	Sandy silty loam	



Results Summary

Report No.: 21-35064, issue number 0

ELAB Reference				245844	245845	245846	245847	245848
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				HPA4	HPA4	HPA5	HPA5	HPA6
Sample Depth (m)				0.10	0.50	0.15	0.30	0.30
Sampling Date				26/07/2021	26/07/2021	26/07/2021	26/07/2021	26/07/2021
Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	< 0.1	27.5	< 0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	None	Stones	None	None	None
Metals								
Arsenic	M	mg/kg	1	n/t	^ 13.1	^ 4.9	n/t	^ 7.7
Beryllium	U	mg/kg	1	n/t	< 1.0	< 1.0	n/t	< 1.0
Cadmium	M	mg/kg	0.5	n/t	^ < 0.5	^ < 0.5	n/t	^ < 0.5
Chromium	M	mg/kg	5	n/t	^ 23.1	^ 8.6	n/t	^ 15.9
Copper	M	mg/kg	5	^ 10.7	^ 27.6	^ 13.1	^ 27.0	^ 21.3
Lead	M	mg/kg	5	n/t	^ 90.4	^ 83.7	n/t	^ 100
Mercury	M	mg/kg	0.5	n/t	^ < 0.5	^ < 0.5	n/t	^ < 0.5
Nickel	M	mg/kg	5	^ < 5.0	^ 13.5	^ < 5.0	^ 11.8	^ 8.6
Selenium	M	mg/kg	1	n/t	^ < 1.0	^ < 1.0	n/t	^ < 1.0
Vanadium	M	mg/kg	5	n/t	^ 31.9	^ 11.6	n/t	^ 22.6
Zinc	M	mg/kg	5	^ 36.7	^ 109	^ 43.6	^ 96.7	^ 75.1
Anions								
Water Soluble Chloride	M	mg/kg	40	n/t	^ < 40	^ < 40	n/t	^ < 40
Water Soluble Sulphate	M	g/l	0.02	n/t	^ 0.13	^ < 0.02	n/t	^ 0.07
Inorganics								
Carbonate	N	%	0.1	1.3	n/t	n/t	4.5	n/t
Elemental Sulphur	M	mg/kg	20	n/t	^ < 20	^ < 20	n/t	^ < 20
Hexavalent Chromium	N	mg/kg	0.8	n/t	< 0.8	< 0.8	n/t	< 0.8
Total Sulphide	N	mg/kg	2	n/t	< 2	< 2	n/t	< 2
Total Cyanide	M	mg/kg	1	n/t	^ < 1.0	^ < 1.0	n/t	^ < 1.0
Acid Soluble Sulphate (SO4)	U	%	0.02	n/t	0.02	< 0.02	n/t	0.02
Water Soluble Boron	N	mg/kg	0.5	n/t	0.7	< 0.5	n/t	0.6
Miscellaneous								
Electrical Conductivity (CaSO4 extract)	N	uS/cm	50	2350	n/t	n/t	2400	n/t
Carbon Nitrogen Ratio	N	ratio	0.1	18.1	n/t	n/t	n/t	n/t
Loss On Ignition (450°C)	M	%	0.01	^ 4.92	n/t	n/t	^ 5.25	n/t
pH	M	pH units	0.1	^ 8.1	^ 8.4	^ 7.5	^ 7.5	^ 7.4
Density	N	g/ml	0	1.13	n/t	n/t	1.12	n/t
Soil Organic Matter	U	%	0.1	n/t	n/t	n/t	4.2	n/t
Total Carbon	N	%	0.01	2.9	n/t	n/t	n/t	n/t
Total Organic Carbon	N	%	0.01	n/t	1.2	1.9	n/t	2.3
Total Nitrogen	N	%	0.01	0.16	n/t	n/t	n/t	n/t
Extractable Potassium	N	mg/l	20	82	n/t	n/t	190	n/t
Extractable Magnesium	N	mg/l	20	38	n/t	n/t	69	n/t
Extractable Phosphate	N	mg/l	1	69	n/t	n/t	n/t	n/t
Extractable Calcium	N	mg/l	20	n/t	n/t	n/t	3140	n/t
Extractable Sodium	N	mg/l	20	n/t	n/t	n/t	32	n/t
Sand content	NS	%	1	to follow	n/t	n/t	to follow	n/t
Silt content	NS	%	1	to follow	n/t	n/t	to follow	n/t
Clay content	NS	%	1	to follow	n/t	n/t	to follow	n/t
Stones > 2mm	NS	%	1	to follow	n/t	n/t	to follow	n/t
Stones > 20mm	NS	%	1	to follow	n/t	n/t	to follow	n/t
Stones > 50mm	NS	%	1	to follow	n/t	n/t	n/t	n/t
Stones > 75mm	NS	%	1	n/t	n/t	n/t	to follow	n/t
Total Visible Contaminants	N	%	0.01	< 0.01	n/t	n/t	< 0.01	n/t
Plastics	N	%	0.01	< 0.01	n/t	n/t	< 0.01	n/t
Sharps	N	n/kg	0	0	n/t	n/t	0	n/t

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Results Summary

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ELAB Reference				245844	245845	245846	245847	245848
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				HPA4	HPA4	HPA5	HPA5	HPA6
Sample Depth (m)				0.10	0.50	0.15	0.30	0.30
Sampling Date				26/07/2021	26/07/2021	26/07/2021	26/07/2021	26/07/2021
Determinand	Codes	Units	LOD					
Phenols								
Total Phenols	N	mg/kg	6	n/t	< 6	< 6	n/t	< 6
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	n/t	^ < 0.1	^ < 0.1	n/t	^ < 0.1
Acenaphthylene	M	mg/kg	0.1	n/t	^ < 0.1	^ < 0.1	n/t	^ < 0.1
Acenaphthene	M	mg/kg	0.1	n/t	^ < 0.1	^ < 0.1	n/t	^ < 0.1
Fluorene	M	mg/kg	0.1	n/t	^ < 0.1	^ < 0.1	n/t	^ < 0.1
Phenanthrene	M	mg/kg	0.1	n/t	^ 0.1	^ 0.2	n/t	^ 0.8
Anthracene	M	mg/kg	0.1	n/t	^ < 0.1	^ < 0.1	n/t	^ 0.2
Fluoranthene	M	mg/kg	0.1	n/t	^ 0.5	^ 0.7	n/t	^ 2.2
Pyrene	M	mg/kg	0.1	n/t	^ 0.4	^ 0.6	n/t	^ 1.9
Benzo(a)anthracene	M	mg/kg	0.1	n/t	^ 0.3	^ 0.4	n/t	^ 1.1
Chrysene	M	mg/kg	0.1	n/t	^ 0.3	^ 0.5	n/t	^ 1.3
Benzo(b)fluoranthene	M	mg/kg	0.1	n/t	^ 0.4	^ 0.7	n/t	^ 1.4
Benzo(k)fluoranthene	M	mg/kg	0.1	n/t	^ 0.3	^ 0.6	n/t	^ 1.3
Benzo(a)pyrene	M	mg/kg	0.1	n/t	^ 0.3	^ 0.5	n/t	^ 1.4
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	n/t	^ 0.3	^ 0.6	n/t	^ 1.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	n/t	^ 0.1	^ 0.2	n/t	^ 0.3
Benzo[g,h,i]perylene	M	mg/kg	0.1	n/t	^ 0.2	^ 0.4	n/t	^ 0.9
Total PAH(16)	M	mg/kg	0.4	n/t	^ 3.1	^ 5.5	n/t	^ 14.1
BTEX								
Benzene	M	ug/kg	10	n/t	^ < 10.0	^ < 10.0	n/t	^ < 10.0
Toluene	M	ug/kg	10	n/t	^ < 10.0	^ < 10.0	n/t	^ < 10.0
Ethylbenzene	M	ug/kg	10	n/t	^ < 10.0	^ < 10.0	n/t	^ < 10.0
Xylenes	M	ug/kg	10	n/t	^ < 10.0	^ < 10.0	n/t	^ < 10.0
MTBE	N	ug/kg	10	n/t	< 10.0	< 10.0	n/t	< 10.0
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	< 0.01	< 0.01	n/t	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	< 0.01	< 0.01	n/t	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	< 1.0
>C10-C12 Aliphatic	M	mg/kg	1	n/t	^ < 1.0	^ < 1.0	n/t	^ < 1.0
>C12-C16 Aliphatic	M	mg/kg	1	n/t	^ < 1.0	^ < 1.0	n/t	^ < 1.0
>C16-C21 Aliphatic	M	mg/kg	1	n/t	^ < 1.0	^ < 1.0	n/t	^ < 1.0
>C21-C35 Aliphatic	M	mg/kg	1	n/t	^ 1.4	^ 1.1	n/t	^ < 1.0
>C35-C40 Aliphatic	M	mg/kg	1	n/t	^ < 1.0	^ < 1.0	n/t	^ < 1.0
Total aliphatic hydrocarbons (>C5 - C40)	N	mg/kg	1	n/t	2.1	1.3	n/t	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	< 0.01	< 0.01	n/t	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	< 0.01	< 0.01	n/t	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	n/t	< 1.0	< 1.0	n/t	< 1.0
>C10-C12 Aromatic	M	mg/kg	1	n/t	^ < 1.0	^ < 1.0	n/t	^ < 1.0
>C12-C16 Aromatic	M	mg/kg	1	n/t	^ < 1.0	^ < 1.0	n/t	^ < 1.0
>C16-C21 Aromatic	M	mg/kg	1	n/t	^ 2.8	^ 1.4	n/t	^ 1.5
>C21-C35 Aromatic	M	mg/kg	1	n/t	^ 12.8	^ 4.8	n/t	^ 5.5
>C35-C40 Aromatic	M	mg/kg	1	n/t	^ 1.5	^ < 1.0	n/t	^ < 1.0
Total aromatic hydrocarbons (>C5 - C40)	N	mg/kg	1	n/t	17.9	7.0	n/t	8.1
Total petroleum hydrocarbons (>C5 - C40)	N	mg/kg	1	n/t	19.9	8.3	n/t	8.6

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The Environmental Laboratory Ltd. Reg. No. 3882193



Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY

Results Summary

Report No.: 21-35064, issue number 0

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 (%)
245845	0.50	HPA4	Brown sandy soil, stones, clinker	No asbestos detected	n/t	n/t	n/t	n/t
245846	0.15	HPA5	Brown soil, stones	No asbestos detected	n/t	n/t	n/t	n/t
245848	0.30	HPA6	Brown soil, stones, clinker	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

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Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Acid neutralisation capacity	N	Air dried sample	28/07/2021		
Extractable cations - BS3882	N	Air dried sample	28/07/2021		ICPMS
Visible Contaminants	N		28/07/2021		
Sulphide	N	As submitted sample	30/07/2021	109	Colorimetry
Hexavalent chromium	N	As submitted sample	28/07/2021	110	Colorimetry
pH	M	Air dried sample	29/07/2021	113	Electromeric
Electrical conductivity of soil	N	Air dried sample	28/07/2021	114	Electromeric
Acid Soluble Sulphate	U	Air dried sample	29/07/2021	115	Ion Chromatography
Phenols in solids	N	As submitted sample	28/07/2021	121	HPLC
Elemental Sulphur	M	Air dried sample	28/07/2021	122	HPLC
Loss on ignition at 450 deg C	M	Air dried sample	28/07/2021	129	Gravimetry
PAH (GC-FID)	M	As submitted sample	28/07/2021	133	GC-FID
Extr. Phos	N	Air dried sample	28/07/2021	140	ICPMS
Water soluble anions	M	Air dried sample	28/07/2021	172	Ion Chromatography
Low range Aliphatic hydrocarbons soil	N	As submitted sample	30/07/2021	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	30/07/2021	181	GC-MS
BTEX in solids	M	As submitted sample	30/07/2021	181A	GC-MS
Water soluble boron	N	Air dried sample	28/07/2021	202	Colorimetry
Total cyanide	M	As submitted sample	29/07/2021	204	Colorimetry
Total organic carbon/Total sulphur	N	Air dried sample	29/07/2021	210	IR
TPH CWG soil by gc-gc	M	As submitted sample	28/07/2021	271	
Asbestos identification	U	Air dried sample	29/07/2021	280	Microscopy
Aqua regia extractable metals	M	Air dried sample	28/07/2021	300	ICPMS
Soil organic matter	U	Air dried sample	28/07/2021	BS1377:P3	Titrimetry

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Report Information

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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