



FACTUAL REPORT OF INVESTIGATION

AT: - Land at Shirley Close, Cheshunt, Herts. EN8 9PS

ON: - 2nd March 2022

FOR: - B3 Living

REF: - Community Garden 66622

JOB No: - BL3961

**SOIL INVESTIGATION (EASTERN) LTD
Unit 8, Hill Farm, Church Lane, Ford End, Chelmsford, Essex, CM3 1LH.
TEL. 01245 237555**

**INTERPRETIVE REPORT ON
SITE INVESTIGATION
AT
LAND AT SHIRLEY CLOSE,
CHESHUNT, HERTS, EN8 9PS**

CLIENT: SOIL INVESTIGATION (EASTERN) LIMITED

SI(E) LTD JOB NO: BL3961

DATE: 23 MARCH 2022

REF: G/032285/001

K F GEOTECHNICAL

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**INTERPRETIVE REPORT ON SITE INVESTIGATION AT
LAND AT SHIRLEY CLOSE, CHESHUNT, HERTS, EN8 9PS**

CONTENTS

Section 1	-	Introduction
Section 2	-	The Site
Section 3	-	Site Work
Section 4	-	Laboratory Work
Section 5	-	Discussion

APPENDICES

**INTERPRETIVE REPORT ON SITE INVESTIGATION AT
LAND AT SHIRLEY CLOSE, CHESHUNT, HERTS, EN8 9PS**

1. INTRODUCTION

- 1.1 We were instructed via email dated 16 March 2022 by Soil Investigation (Eastern) Limited to prepare an interpretive report following their site investigation and contamination testing at the above site carried out on the 2 March 2022.
- 1.2 The site forms part of a housing association's development and has until recently been a piece of wasteland. The housing association wish to utilise it for a community garden and for growing fruit and vegetables but we are advised that the site had become very overgrown and had been used for dumping household waste etc. The site was cleared prior to the site work.
- 1.3 We have not visited the site and our comments are based entirely on the information provided. This is a site plan showing the location of five trial pits for the sampling, the logs of these trial pits, laboratory soil testing by ELAB and some photographs of the site taken during the course of the site work.

2. THE SITE

- 2.1 Shirley Close forms part of a large residential area close to the centre of Cheshunt to the northwest. Shirley Close is a cul-de-sac leading to the south off Kingsley Avenue and the site is enclosed by gardens to existing properties, which in the main consist of terraced houses and flats.
- 2.2 The site is basically square in plan and basically level.
- 2.3 The Geology of Great Britain indicates that the naturally occurring subsoil is London Clay capped locally by Kempton Park Gravel and Enfield Silt Member.

INTERPRETIVE REPORT ON SITE INVESTIGATION AT LAND AT SHIRLEY CLOSE, CHESHUNT, HERTS, EN8 9PS

3. SITE WORK

- 3.1 The layout of the site and location of the five sampling points, which are labelled TP1 to TP5 inclusive, is indicated on the site plan forming part of the Factual Report.
- 3.2 The sampling point trial pits can be summarised as revealing fill material to between 100mm and 600mm overlying a gravelly sandy silty clay typical of Enfield Silt Member, possibly mixed with sands and gravels.
- 3.3 Tub and jar samples were taken at 300mm in TP1, in the top 100mm in TP2, at 100mm in TP3, 150mm in TP4, and again at 150mm in TP5. Each of these was placed in a cool box and sent to ELAB for contamination analysis.


4. LABORATORY WORK

- 4.1 ELAB carried out a standard range of tests for common contaminants plus BTEX and Speciated TPH.
- 4.2 The proposal, as we understand it, is to provide a communal area but also with the potential for growing vegetables and on this basis, the most likely Category 4 Screening Levels (C4SL) threshold will be Residential With the Potential for Plant Uptake.
- 4.3 Against this threshold, there are undue concentrations of:
- Lead.** The threshold is 200mg/kg. This is exceeded in each of the samples except for TP2.
- 4.4 There are high levels of Zinc in certain samples. Zinc is generally only injurious to plant growth and generally in acidic soils. This would appear to be the case here with most of the samples being below a pH of seven.
- 4.5 If the threshold is for allotments then all the samples including that from TP2 exceed the C4SL of 80mg/kg.

**INTERPRETIVE REPORT ON SITE INVESTIGATION AT
LAND AT SHIRLEY CLOSE, CHESHUNT, HERTS, EN8 9PS**

5. DISCUSSION

- 5.1 Each of the samples was taken from fill material across the site and this fill material appears to have excessive concentrations of Lead and possibly Zinc with regards to plant growth.
- 5.2 It is unlikely, in our view, that there would be contamination to the natural ground. The depth to the natural ground is nowhere more than 600mm and so our recommendation is that the fill material should be removed down to the natural ground and this should then be replaced by clean inert subsoil and topsoil to meet the requirements of an allotment and from a reliable source.
- 5.3 It is usual to get test certificates from the soil supplier to show that it meets requirements before it is delivered. It is then advisable to test that soil in-situ to ensure that the soil delivered meets the criteria of the test sample.
- 5.4 If there is no plan for vegetables to be grown and it will only be public open space, then no remediation is indicated based on the results of this testing.
- 5.5 The main contaminants are Lead and Zinc and certainly the former tends to form stable compounds in the soil and it is unlikely on this basis that there would be undue concentrations in the leachate. This means that the fill material taken off this site can probably be taken away as inert but we would recommend carrying out some Waste Acceptance Criteria (WAC) sampling to confirm this.


W J C Wallace

Site Location Plan

Sheet: 1 of 1

Job No: BL3961

Scale: Not to scale

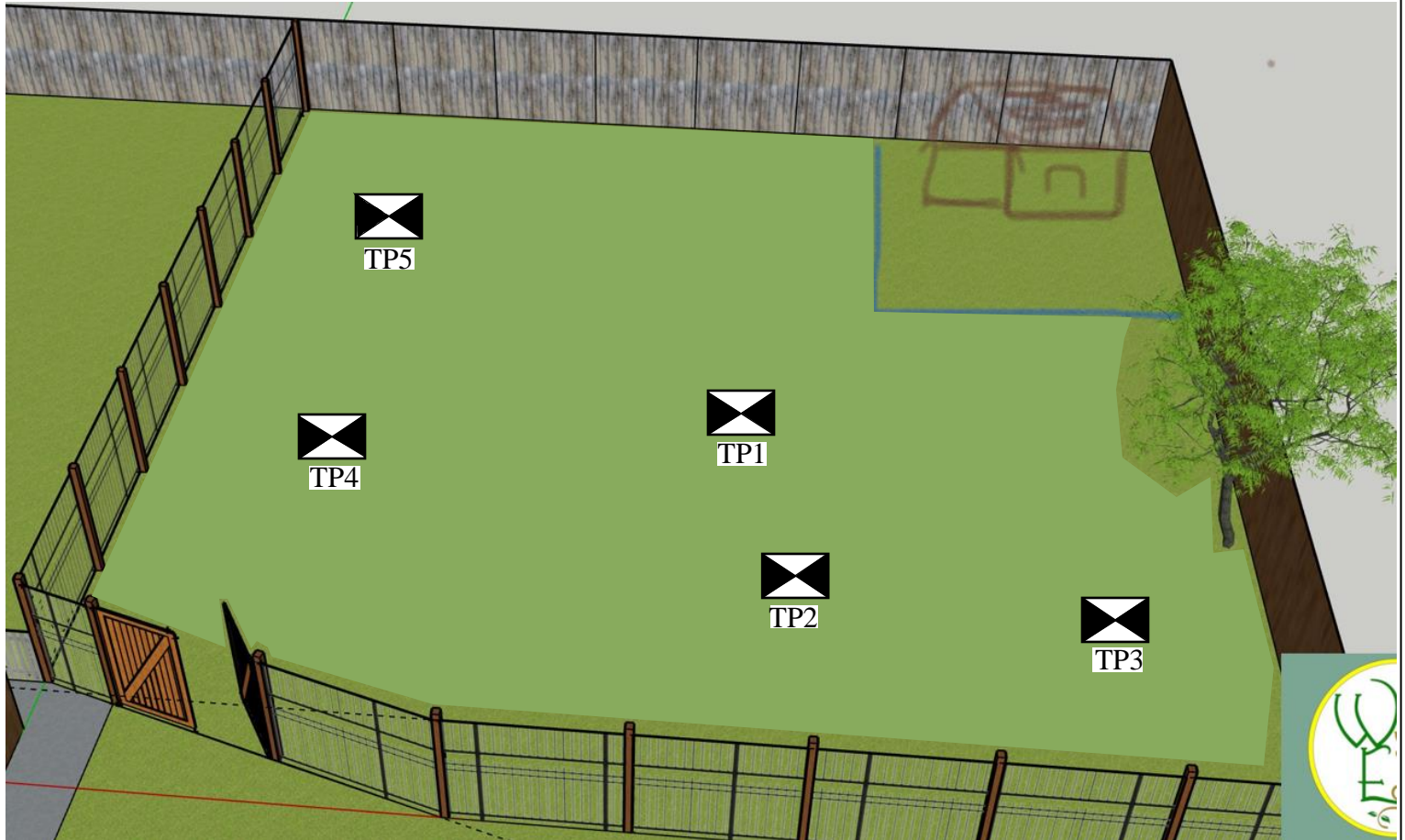
Date: 02/03/2022

Client: B3 Living



Tel/Fax 01245 237555 Mobile 07810 820620

Site: Land at Shirley Close, Cheshunt, Herts. EN8 9PS



Remarks: ON SITE TREE IDENTIFICATION FOR GUIDANCE ONLY.
NOT AUTHENTICATED

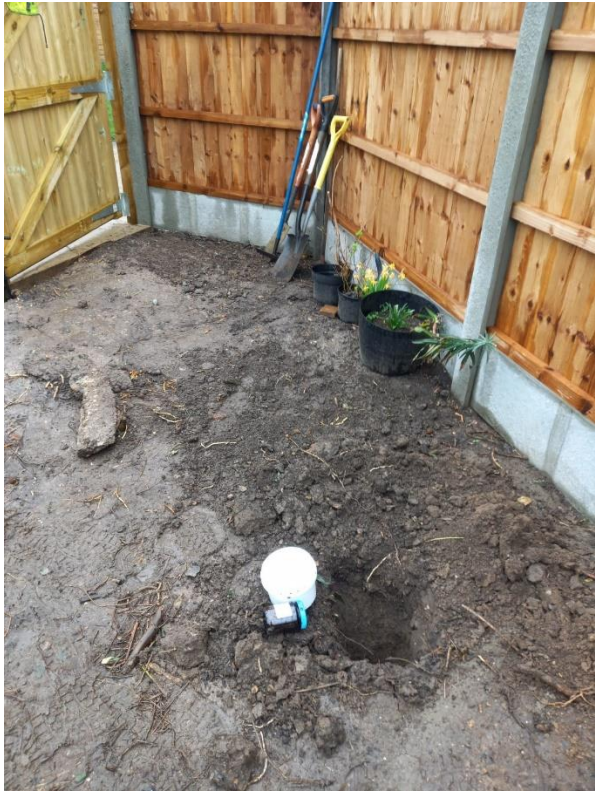
Key:		Trial Pit		Borehole
		Man Hole		Gully
		Soil Vent Pipe		Tree / Bush
		Rain Water Pipe		(approx. ht. in m)

BL3961 – Land at Shirley Close, Cheshunt, Herts EN8 9PS

Photos taken 2.3.2022







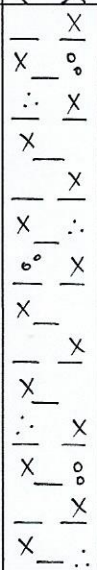







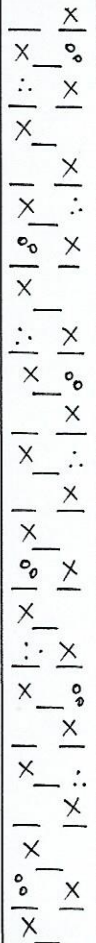



Sample No: 1	Sheet: 1 of 1	 Tel/Fax 01245 237555 Mobile 07810 820620
	Job No: BL3961	
Boring Method: Hand Tools	Date: 02/03/2022	

Client: B3 Living	Site: Land at Shirley Close, Cheshunt
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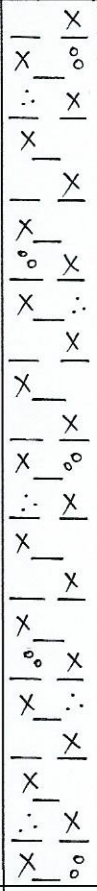
Depth (mm/m)	Description of Strata	Thick- Ness (mm/m)	Legend	Sample	Test Type	Result	Depth (mm/m)	Field Records/ Comments	Depth to water (mm/m)
G.L.	MADE GROUND: Dark brown, gravelly, sandy, very silty, topsoily, CLAY, with brick & carbon fragments.	450		•	Tub & Jar		300	100 Numerous roots of live & dead appearance to 3mmø to 900mm.	
450	Orange brown, gravelly, sandy, very silty, CLAY. Thinly laminated with orange & brown silt & fine sand.							450	
900	Trial Pit ends at 900mm.								

Remarks: Trial pit moist on completion.	Key: • Small disturbed sample V Pilcon Vane (kPa) B Bulk disturbed sample I Mackintosh Probe U Undisturbed sample(U100)  Standard W Water sample penetration test J Jar sample N SPT blow count
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Sample No: 2		Sheet: 1 of 1		 Tel/Fax 01245 237555 Mobile 07810 820620				
		Job No: BL3961						
Boring Method: Hand Tools		Date: 02/03/2022						
Client: B3 Living				Site: Land at Shirley Close, Cheshunt				
Depth (mm/m)	Description of Strata	Thick- Ness (mm/m)	Legend	Sample	Test Type Result	Depth (mm/m)	Field Records/ Comments	Depth to water (mm/m)
G.L.	MADE GROUND: Grey, gravelly, SILT, with numerous ash, clinker, charcoal, plastics, brick & block fragments.	100		•	Tub & Jar	G.L.		
100	Orange brown, gravelly, sandy, very silty, CLAY. Thinly laminated with orange & brown silt & fine sand.	800					100 Numerous roots of live & dead appearance to 3mmø to 900mm.	
900	Trial Pit ends at 900mm.							
Remarks: Trial pit moist on completion.				Key: • Small disturbed sample V Pilcon Vane (kPa) B Bulk disturbed sample I Mackintosh Probe U Undisturbed sample(U100) S Standard W Water sample penetration test J Jar sample N SPT blow count				

Sample No: 3	Sheet: 1 of 1	 Tel/Fax 01245 237555 Mobile 07810 820620
	Job No: BL3961	
Boring Method: Hand Tools	Date: 02/03/2022	



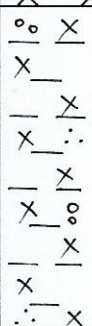
Client: B3 Living	Site: Land at Shirley Close, Cheshunt
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Depth (mm/m)	Description of Strata	Thick- Ness (mm/m)	Legend	Sample	Test Type	Result	Depth (mm/m)	Field Records/ Comments	Depth to water (mm/m)
G.L.	MADE GROUND: Dark brown, gravelly, sandy, very silty, topsoily, CLAY, with numerous organic matter & brick, glass & plastic fragments.	150		•	Tub & Jar		100	100 Numerous roots of live & dead appearance to 3mmø to 800mm.	
150	Orange brown, gravelly, sandy, very silty, CLAY. Thinly laminated with orange & brown silt & fine sand.	650							
800	Trial Pit ends at 800mm.								

Remarks: Trial pit moist on completion.	Key: • Small disturbed sample V Pilcon Vane (kPa) B Bulk disturbed sample I Mackintosh Probe U Undisturbed sample(U100) S Standard W Water sample penetration test J Jar sample N SPT blow count
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Sample No: 5	Sheet: 1 of 1	 Tel/Fax 01245 237555 Mobile 07810 820620
	Job No: BL3961	
Boring Method: Hand Tools	Date: 02/03/2022	

Client: B3 Living	Site: Land at Shirley Close, Cheshunt
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Depth (mm/m)	Description of Strata	Thick- Ness (mm/m)	Legend	Sample	Test Type Result	Depth (mm/m)	Field Records/ Comments	Depth to water (mm/m)
G.L.	MADE GROUND: Dark brown, gravelly, very silty, topsoily, CLAY, with brick, carbon, glass & plastics.	300		•	Tub & Jar	150	100 Numerous roots of live & dead appearance to 4mmø to	
300	MADE GROUND: Orange brown, slightly gravelly, sandy, very silty, CLAY, with brick & carbon fragments.	300					400 Numerous hair & fibrous roots to 850mm.	
600	Orange brown, gravelly, sandy, very silty, CLAY. Thinly laminated with orange & brown silt & fine sand.	250						
850	Trial Pit ends at 850mm.							

Remarks: Trial pit moist on completion.	Key: • Small disturbed sample V Pilcon Vane (kPa) B Bulk disturbed sample I Mackintosh Probe U Undisturbed sample(U100) S Standard W Water sample penetration test J Jar sample N SPT blow count
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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 22-39134

Issue: 1

Date of Issue: 11/03/2022

Contact: Sandra Brown

Customer Details: Soil Investigation (Eastern) Ltd
Unit 8, Hill Farm
Church Lane
Chelmsford
EssexCM3 1LH

Quotation No: Q19-01650


Order No: BL3961

Customer Reference: BL3961

Date Received: 04/03/2022

Date Approved: 11/03/2022

Details: Shirley Close, Cheshunt EN8 9PS

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.: 22-39134, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
270313	TP1 0.30	02/03/2022	04/03/2022	Silty loam	
270314	TP2 GL	02/03/2022	04/03/2022	Silty loam	
270315	TP3 0.10	02/03/2022	04/03/2022	Silty loam	
270316	TP4 0.15	02/03/2022	04/03/2022	Silty loam	
270317	TP5 0.20	02/03/2022	04/03/2022	Silty loam	



2683



Results Summary

Report No.: 22-39134, issue number 1

ELAB Reference	270313	270314	270315	270316	270317
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP1	TP2	TP3	TP4	TP5
Sample Depth (m)	0.30	GL	0.10	0.15	0.20
Sampling Date	02/03/2022	02/03/2022	02/03/2022	02/03/2022	02/03/2022

Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Moisture Content	N	%	0.1	22.8	44.2	34.9	23.7	27.2
Material removed	N	%	0.1	18.8	27.5	17.3	25.9	17.2
Description of Inert material removed	N		0	Stones/Glass/Wood	Stones/Clinker/Wood/Metal	Stones/Brick/Clinker	Stones/Brick/Clinker	Stones/Clinker/Wood
Metals								
Arsenic	M	mg/kg	1	16.4	7.2	13.2	17.2	13.6
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	0.6	0.6	0.5
Chromium	M	mg/kg	5	23.1	24.3	30.0	25.3	23.5
Copper	M	mg/kg	5	34.6	499	48.0	52.4	44.2
Lead	M	mg/kg	5	301	147	333	322	258
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5
Nickel	M	mg/kg	5	18.6	22.4	15.6	21.3	19.4
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	196	742	225	211	285
Inorganics								
Elemental Sulphur	M	mg/kg	20	< 20	< 20	< 20	< 20	< 20
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Thiocyanate	N	mg/kg	4	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Total Cyanide	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Acid Soluble Sulphate (SO4)	U	%	0.02	0.07	0.19	0.05	0.03	0.04
Water Soluble Boron	N	mg/kg	0.5	1.3	3.3	3.5	2.3	1.8
Miscellaneous								
pH	M	pH units	0.1	6.0	6.9	6.7	7.1	6.6
Soil Organic Matter	U	%	0.1	4.6	2.2	10	5.1	7.1



2683



Results Summary

Report No.: 22-39134, issue number 1

ELAB Reference	270313	270314	270315	270316	270317
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP1	TP2	TP3	TP4	TP5
Sample Depth (m)	0.30	GL	0.10	0.15	0.20
Sampling Date	02/03/2022	02/03/2022	02/03/2022	02/03/2022	02/03/2022

Determinand	Codes	Units	LOD					
Phenols								
Phenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1
M,P-Cresol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1
O-Cresol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1
3,4-Dimethylphenol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1
2,3-Dimethylphenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1
1-Naphthol	N	mg/kg	1	< 1	< 1	< 1	< 1	< 1
2,3,5-trimethylphenol	M	mg/kg	1	< 1	< 1	< 1	< 1	< 1
Total Phenols	N	mg/kg	6	< 6	< 6	< 6	< 6	< 6
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1	0.2	< 0.1	0.2
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	0.9	0.3	1.3
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1	0.7	0.3	1.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	0.4	0.1	0.8
Chrysene	M	mg/kg	0.1	< 0.1	< 0.1	0.5	0.2	1.0
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	0.3	0.2	0.8
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	0.3	0.1	0.9
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	0.4	0.2	1.3
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	< 0.1	0.2	0.1	0.4
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	< 0.1	0.2	0.1	0.4
Total PAH(16)	M	mg/kg	0.4	< 0.4	< 0.4	4.2	1.7	8.4



2683



Results Summary

Report No.: 22-39134, issue number 1

ELAB Reference	270313	270314	270315	270316	270317				
Customer Reference									
Sample ID									
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL				
Sample Location	TP1	TP2	TP3	TP4	TP5				
Sample Depth (m)	0.30	GL	0.10	0.15	0.20				
Sampling Date	02/03/2022	02/03/2022	02/03/2022	02/03/2022	02/03/2022				
Determinand	Codes	Units	LOD						
BTEX									
Benzene	M	ug/kg	10	< 10.0	11.5	< 10.0	< 10.0	< 10.0	
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	
Xylenes	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	
MTBE	N	ug/kg	10	< 10.0	< 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	< 0.01	
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 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	< 1.0	
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 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	< 1.0	
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	2.3	2.3	2.6	< 1.0	
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	1.3	3.7	3.7	4.2	< 1.0	
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 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	< 0.01	
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	< 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	< 1.0	
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1	1.2	1.6	3.8	2.2	< 1.0	
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	2.5	3.7	6.5	4.3	< 1.0	
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	N	mg/kg	1	3.8	7.4	10.2	8.5	< 1.0	



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

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Results Summary

Report No.: 22-39134, 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 (%)
270313	0.30	TP1	Brown sandy soil, stones, clinker, glass, organics	No asbestos detected	n/t	n/t	n/t	n/t
270314	GL	TP2	Grey soil, stones, clinker, metal, organics	No asbestos detected	n/t	n/t	n/t	n/t
270315	0.10	TP3	Brown sandy soil, stones, brick, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t
270316	0.15	TP4	Brown sandy soil, stones, clinker, organics	No asbestos detected	n/t	n/t	n/t	n/t
270317	0.20	TP5	Brown sandy soil, stones, clinker, glass, organics	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

Report No.: 22-39134, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	07/03/2022	110	Colorimetry
pH	M	Air dried sample	10/03/2022	113	Electromeric
Acid Soluble Sulphate	U	Air dried sample	09/03/2022	115	Ion Chromatography
Aqua regia extractable metals	M	Air dried sample	07/03/2022	118	ICPMS
Phenols in solids	M	As submitted sample	07/03/2022	121	HPLC
Elemental Sulphur	M	Air dried sample	07/03/2022	122	HPLC
PAH (GC-FID)	M	As submitted sample	07/03/2022	133	GC-FID
Thiocyanate	N	As submitted sample	10/03/2022	146	Colorimetry
Low range Aliphatic hydrocarbons soil	N	As submitted sample	09/03/2022	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	09/03/2022	181	GC-MS
BTEX in solids	M	As submitted sample	09/03/2022	181A	GC-MS
Water soluble boron	N	Air dried sample	07/03/2022	202	Colorimetry
Total cyanide	M	As submitted sample	07/03/2022	204	Colorimetry
TPH CWG soil by gc-gc	M	As submitted sample	04/03/2022	271	
Asbestos identification	U	Air dried sample	09/03/2022	280	Microscopy
Soil organic matter	U	Air dried sample	10/03/2022	BS1377:P3	Titrimetry

Tests marked N are not UKAS accredited

Report Information

Report No.: 22-39134, 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	<p>LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.</p> <p>Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.</p> <p>ELAB are unable to provide an interpretation or opinion on the content of this report. The results relate only to the sample received.</p> <p>PCB congener results may include any coeluting PCBs</p> <p>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.</p>

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