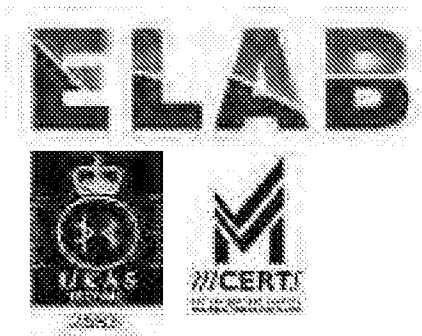

APPENDIX H --Laboratory Test Results

Laboratory Test Results





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

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 19-26087

Issue: 1

Date of Issue: 12/12/2019

Contact: Martin Weil

Customer Details: Leap Environmental Ltd
The Atrium
Curtis Road
Dorking
Surrey RH4 1X4

Quotation No: Q14-00063

Order No: LPO-1303

Customer Reference: LP2128

Date Received: 05/12/2019

Date Approved: 12/12/2019

Details: North Littlehampton

Approved by: [Redacted]

Mike Varley, Technical Manager

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Sample Summary

Report No.: 19-26087, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
191468	TP135 0.20	04/12/2019	05/12/2019	Silty loam	
191469	TP135 0.40	04/12/2019	05/12/2019		
191470	TP136 0.20	04/12/2019	05/12/2019		
191471	TP136 0.60	04/12/2019	05/12/2019	Silty loam	
191472	TP137 0.20	04/12/2019	05/12/2019	Silty loam	
191473	TP137 0.40	04/12/2019	05/12/2019		
191474	TP138 0.15	04/12/2019	05/12/2019		
191475	TP138 0.40	04/12/2019	05/12/2019	Silty loam	
191476	TP139 0.15	04/12/2019	05/12/2019	Silty loam	
191477	TP139 0.35	04/12/2019	05/12/2019		
191478	TP107 0.20	04/12/2019	05/12/2019	Silty loam	
191479	TP107 0.40	04/12/2019	05/12/2019		
191480	TP101 0.10	04/12/2019	05/12/2019	Silty loam	
191481	TP101 0.60	04/12/2019	05/12/2019		
191482	TP101 1.80	04/12/2019	05/12/2019		
191483	TP101 2.90	04/12/2019	05/12/2019	Silty loam	
191484	TP130 0.10	04/12/2019	05/12/2019	Silty loam	
191485	TP130 0.50	04/12/2019	05/12/2019		
191486	TP132 0.15	04/12/2019	05/12/2019	Silty loam	
191487	TP132 0.50	04/12/2019	05/12/2019		
191488	BS1 0.50	04/12/2019	05/12/2019	Silty loam	
191489	BS2 0.50	04/12/2019	05/12/2019	Silty loam	



Results Summary

Report No.: 19-26087, issue number 1

ELAB Reference				191468	191471	191472	191475	191476
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP135	TP136	TP137	TP138	TP139
Sample Depth (m)				0.20	0.60	0.20	0.40	0.15
Sampling Date				04/12/2019	04/12/2019	04/12/2019	04/12/2019	04/12/2019
Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	None	None	None	None	None
Metals								
Arsenic	M	mg/kg	1	10.5	13.4	10.4	12.4	13.1
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	20.0	35.0	22.6	35.5	30.1
Copper	M	mg/kg	5	20.3	21.6	18.9	21.3	21.7
Lead	M	mg/kg	5	36.2	17.1	19.8	15.5	15.8
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	14.8	26.7	15.4	25.3	24.1
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	62.5	64.6	54.8	58.2	61.9
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Miscellaneous								
pH	M	pH units	0.1	7.4	7.7	7.1	7.4	8.1
Total Organic Carbon	N	%	0.01	1.1	0.38	0.50	0.31	0.37
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	< 0.1	< 0.1	< 0.1
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	< 0.1	< 0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 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	< 0.1
Chrysene	M	mg/kg	0.1	< 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	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 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	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 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	< 0.1
Benzo(g,h,i)perylene	M	mg/kg	0.1	< 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	< 0.4

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Results Summary

Report No.: 19-26087, issue number 1

				ELAB Reference	191468	191471	191472	191475	191476
				Customer Reference					
				Sample ID					
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
				Sample Location	TP135	TP136	TP137	TP138	TP139
				Sample Depth (m)	0.20	0.60	0.20	0.40	0.15
				Sampling Date	04/12/2019	04/12/2019	04/12/2019	04/12/2019	04/12/2019
Determinand				Codes	Units	LOD			
BTEX									
Benzene	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Toluene	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Ethylbenzene	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
Xylenes	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
MTBE	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t	n/t
TPH CWG									
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	n/t
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t
>C10-C12 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t
>C12-C16 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t
>C16-C21 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t
>C21-C35 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t
>C35-C40 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t	n/t
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t
>C10-C12 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t
>C12-C16 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t
>C16-C21 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t
>C21-C35 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t
>C35-C40 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t	n/t
OrganoChlorine Pesticides									
alpha-HCH	M	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t
beta HCH	M	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t
gamma-HCH	M	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t
delta-HCH	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t
Heptachlor	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t
Aldrin	M	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t
Heptachlor expoxide	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t
trans-Chlordane	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t
alpha cis-Chlordane	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t
p,p-DDE	M	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t
Dieldrin	M	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t
Endrin	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t
p,p-DDD	M	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t
Endosulfan II	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t
Endrin aldehyde	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t
p,p-DDT	M	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t
Endosulphan sulphate	M	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t
Methoxychlor	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t
Endrin ketone	N	ug/kg	10	n/t	n/t	< 10	n/t	n/t	n/t

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Results Summary

Report No.: 19-26087, issue number 1

ELAB Reference				191478	191480	191483	191484	191486
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP107	TP101	TP101	TP130	TP132
Sample Depth (m)				0.20	0.10	2.90	0.10	0.15
Sampling Date				04/12/2019	04/12/2019	04/12/2019	04/12/2019	04/12/2019
Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	< 0.1	14.3	< 0.1	9.5	< 0.1
Description of Inert material removed	N		0	None	Stones	None	Stones	None
Metals								
Arsenic	M	mg/kg	1	9.6	11.5	28.3	15.1	18.9
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	20.8	23.7	34.8	26.3	23.0
Copper	M	mg/kg	5	17.1	24.3	28.9	17.8	15.6
Lead	M	mg/kg	5	17.5	27.9	33.0	21.2	17.7
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	15.8	18.6	23.9	25.3	17.7
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	59.3	84.8	192	65.5	55.1
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Miscellaneous								
pH	M	pH units	0.1	7.3	8.8	8.1	8.1	8.1
Total Organic Carbon	N	%	0.01	2.4	0.93	1.6	1.0	1.3
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	0.2	0.1	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1	1.1	0.4	< 0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1	1.0	0.4	< 0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	0.6	0.2	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1	0.6	0.2	< 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	0.4	0.2	< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	0.6	0.3	< 0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	0.5	0.3	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	0.4	0.2	< 0.1	< 0.1
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	0.5	0.3	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4	6.1	3.0	< 0.4	< 0.4

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Results Summary

Report No.: 19-26087, issue number 1

ELAB Reference				191478	191480	191483	191484	191486
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP107	TP101	TP101	TP130	TP132
Sample Depth (m)				0.20	0.10	2.90	0.10	0.15
Sampling Date				04/12/2019	04/12/2019	04/12/2019	04/12/2019	04/12/2019
Determinand	Codes	Units	LOD					
BTEX								
Benzene	N	ug/kg	10	n/t	n/t	< 10.0	n/t	n/t
Toluene	N	ug/kg	10	n/t	n/t	< 10.0	n/t	n/t
Ethylbenzene	N	ug/kg	10	n/t	n/t	< 10.0	n/t	n/t
Xylenes	N	ug/kg	10	n/t	n/t	< 10.0	n/t	n/t
MTBE	N	ug/kg	10	n/t	n/t	< 10.0	n/t	n/t
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t	< 0.01	n/t	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t	< 0.01	n/t	n/t
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t	< 1.0	n/t	n/t
>C10-C12 Aliphatic	N	mg/kg	1	n/t	n/t	< 1.0	n/t	n/t
>C12-C16 Aliphatic	N	mg/kg	1	n/t	n/t	< 1.0	n/t	n/t
>C16-C21 Aliphatic	N	mg/kg	1	n/t	n/t	< 1.0	n/t	n/t
>C21-C35 Aliphatic	N	mg/kg	1	n/t	n/t	3.9	n/t	n/t
>C35-C40 Aliphatic	N	mg/kg	1	n/t	n/t	< 1.0	n/t	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t	< 0.01	n/t	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t	< 0.01	n/t	n/t
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t	< 1.0	n/t	n/t
>C10-C12 Aromatic	N	mg/kg	1	n/t	n/t	< 1.0	n/t	n/t
>C12-C16 Aromatic	N	mg/kg	1	n/t	n/t	< 1.0	n/t	n/t
>C16-C21 Aromatic	N	mg/kg	1	n/t	n/t	< 1.0	n/t	n/t
>C21-C35 Aromatic	N	mg/kg	1	n/t	n/t	7.5	n/t	n/t
>C35-C40 Aromatic	N	mg/kg	1	n/t	n/t	4.3	n/t	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	n/t	15.7	n/t	n/t
OrganoChlorine Pesticides								
alpha-HCH	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
beta HCH	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
gamma-HCH	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
delta-HCH	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Heptachlor	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Aldrin	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Heptachlor expoxide	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
trans-Chlordane	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
alpha cis-Chlordane	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
p,p-DDE	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Dieldrin	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Endrin	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
p,p-DDD	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Endosulfan II	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Endrin aldehyde	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
p,p-DDT	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Endosulphan sulphate	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Methoxychlor	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Endrin ketone	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t

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Results Summary

Report No.: 19-26087, issue number 1

ELAB Reference	191488	191489
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	BS1	BS2
Sample Depth (m)	0.15	0.15
Sampling Date	04/12/2019	04/12/2019

Determinand	Codes	Units	LOD		
Soil sample preparation parameters					
Material removed	N	%	0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	None	None
Metals					
Arsenic	M	mg/kg	1	11.1	13.1
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	28.0	36.3
Copper	M	mg/kg	5	20.4	21.4
Lead	M	mg/kg	5	19.5	18.1
Mercury	M	mg/kg	0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	19.7	24.6
Selenium	M	mg/kg	1	< 1.0	< 1.0
Zinc	M	mg/kg	5	69.9	67.0
Inorganics					
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8
Miscellaneous					
pH	M	pH units	0.1	7.8	7.3
Total Organic Carbon	N	%	0.01	0.69	0.46
Polyaromatic hydrocarbons					
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	0.1	< 0.1
Pyrene	M	mg/kg	0.1	0.2	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	M	mg/kg	0.1	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	0.5	< 0.4

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The Environmental Laboratory Ltd. Reg. No. 3882193



Results Summary

Report No.: 19-26087, issue number 1

ELAB Reference	191488	191489
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	BS1	BS2
Sample Depth (m)	0.15	0.15
Sampling Date	04/12/2019	04/12/2019

Determinand	Codes	Units	LOD		
BTEX					
Benzene	N	ug/kg	10	n/t	n/t
Toluene	N	ug/kg	10	n/t	n/t
Ethylbenzene	N	ug/kg	10	n/t	n/t
Xylenes	N	ug/kg	10	n/t	n/t
MTBE	N	ug/kg	10	n/t	n/t
TPH CWG					
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t
>C10-C12 Aliphatic	N	mg/kg	1	n/t	n/t
>C12-C16 Aliphatic	N	mg/kg	1	n/t	n/t
>C16-C21 Aliphatic	N	mg/kg	1	n/t	n/t
>C21-C35 Aliphatic	N	mg/kg	1	n/t	n/t
>C35-C40 Aliphatic	N	mg/kg	1	n/t	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t
>C10-C12 Aromatic	N	mg/kg	1	n/t	n/t
>C12-C16 Aromatic	N	mg/kg	1	n/t	n/t
>C16-C21 Aromatic	N	mg/kg	1	n/t	n/t
>C21-C35 Aromatic	N	mg/kg	1	n/t	n/t
>C35-C40 Aromatic	N	mg/kg	1	n/t	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	n/t
OrganoChlorine Pesticides					
alpha-HCH	M	ug/kg	10	n/t	n/t
beta HCH	M	ug/kg	10	n/t	n/t
gamma-HCH	M	ug/kg	10	n/t	n/t
delta-HCH	N	ug/kg	10	n/t	n/t
Heptachlor	N	ug/kg	10	n/t	n/t
Aldrin	M	ug/kg	10	n/t	n/t
Heptachlor expoxide	N	ug/kg	10	n/t	n/t
trans-Chlordane	N	ug/kg	10	n/t	n/t
alpha cis-Chlordane	N	ug/kg	10	n/t	n/t
p,p-DDE	M	ug/kg	10	n/t	n/t
Dieldrin	M	ug/kg	10	n/t	n/t
Endrin	N	ug/kg	10	n/t	n/t
p,p-DDD	M	ug/kg	10	n/t	n/t
Endosulfan II	N	ug/kg	10	n/t	n/t
Endrin aldehyde	N	ug/kg	10	n/t	n/t
p,p-DDT	M	ug/kg	10	n/t	n/t
Endosulphan sulphate	M	ug/kg	10	n/t	n/t
Methoxychlor	N	ug/kg	10	n/t	n/t
Endrin ketone	N	ug/kg	10	n/t	n/t

Tests marked N are not UKAS accredited.

The Environmental Laboratory Ltd, Reg. No. 3882193



Results Summary

Report No.: 19-26087, issue number 1

ELAB Reference	191483
Customer Reference	
Sample ID	
Sample Type	SOIL
Sample Location	TP101
Sample Depth (m)	2.90
Sampling Date	04/12/2019

Determinand	Codes	Units	LOD	
VOC				
Heptane	N	ug/kg	10	< 10.0
Octane	N	ug/kg	10	< 10.0
Nonane	N	ug/kg	10	< 10.0
Benzene	N	ug/kg	10	< 10.0
Toluene	N	ug/kg	10	< 10.0
Ethylbenzene	N	ug/kg	10	< 10.0
m+p-xylene	N	ug/kg	10	< 10.0
o-xylene	N	ug/kg	10	< 10.0
cis-1,2-dichloroethene	N	ug/kg	10	< 10.0
1,1-Dichloroethane	N	ug/kg	10	< 10.0
Chloroform	N	ug/kg	10	< 10.0
Tetrachloromethane	N	ug/kg	10	< 10.0
1,1,1-Trichloroethane	N	ug/kg	10	< 10.0
Trichloroethylene	N	ug/kg	10	< 10.0
Tetrachloroethylene	N	ug/kg	10	< 10.0
1,1,1,2-Tetrachloroethane	N	ug/kg	10	< 10.0
1,1,2,2-Tetrachloroethane	N	ug/kg	10	< 10.0
Chlorobenzene	N	ug/kg	10	< 10.0
Bromobenzene	N	ug/kg	10	< 10.0
Bromodichloromethane	N	ug/kg	10	< 10.0
Methylethylbenzene	N	ug/kg	10	< 10.0
1,1-Dichloro-1-propene	N	ug/kg	10	< 10.0
Trans - 1,2 -dichloroethylene	N	ug/kg	10	< 10.0
2,2-Dichloropropane	N	ug/kg	10	< 10.0
Bromochloromethane	N	ug/kg	10	< 10.0
1,2-Dichloroethane	N	ug/kg	10	< 10.0
Dibromomethane	N	ug/kg	10	< 10.0
1,2-Dichloropropane	N	ug/kg	10	< 10.0
cis-1,3-Dichloro-1-propene	N	ug/kg	10	< 10.0
trans-1,3-Dichloro-1-propene	N	ug/kg	10	< 10.0
1,1,2-Trichloroethane	N	ug/kg	10	< 10.0
Dibromochloromethane	N	ug/kg	10	< 10.0
1,3-Dichloropropane	N	ug/kg	10	< 10.0
1,2-dibromoethane	N	ug/kg	10	< 10.0
Styrene	N	ug/kg	10	< 10.0
Propylbenzene	N	ug/kg	10	< 10.0
2-Chlorotoluene	N	ug/kg	10	< 10.0
1,2,4-Trimethylbenzene	N	ug/kg	10	< 10.0
4-Chlorotoluene	N	ug/kg	10	< 10.0
t-butylbenzene	N	ug/kg	10	< 10.0
1,3,5-Trimethylbenzene	N	ug/kg	10	< 10.0
1-methylpropylbenzene	N	ug/kg	10	< 10.0
p-cymene	N	ug/kg	10	< 10.0
1,3-Dichlorobenzene	N	ug/kg	10	< 10.0
Butylbenzene	N	ug/kg	10	< 10.0
1,2-Dibromo-3-chloropropane	N	ug/kg	10	< 10.0
Hexachlorobutadiene	N	ug/kg	10	< 10.0
1,2,3 - Trichlorobenzene	N	ug/kg	10	< 10.0
Naphthalene	N	ug/kg	10	< 10.0
1,2,4 - Trichlorobenzene	N	ug/kg	10	< 10.0
1,4-Dichlorobenzene	N	ug/kg	10	< 10.0
1,2-Dichlorobenzene	N	ug/kg	10	< 10.0
Bromoform	N	ug/kg	10	< 10.0

Tests marked N are not UKAS accredited.

The Environmental Laboratory Ltd. Reg. No. 3882193



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Results Summary

Report No.: 19-26087, 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 (%)
191468	0.20	TP135	Brown Soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t
191471	0.60	TP136	Brown Soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t
191472	0.20	TP137	Brown Soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t
191475	0.40	TP138	Brown Soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t
191476	0.15	TP139	Brown Soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t
191478	0.20	TP107	Brown Soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t
191480	0.10	TP101	Brown Soil, Stones, Chalk, Clinker	No asbestos detected	n/t	n/t	n/t	n/t
191483	2.90	TP101	Brown Soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t
191484	0.10	TP130	Brown Soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t
191486	0.15	TP132	Brown Soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t
191488	0.15	BS1	Brown Soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t
191489	0.15	BS2	Brown Soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t



Method Summary

Report No.: 19-26087, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	09/12/2019	110	Colorimetry
pH	M	Air dried sample	11/12/2019	113	Electromeric
Aqua regia extractable metals	M	Air dried sample	09/12/2019	118	ICPMS
PAH (GC-FID)	M	As submitted sample	09/12/2019	133	GC-FID
Organochlorine Pesticides in solids	M	As submitted sample	09/12/2019	173	GC-MS
Low range Aliphatic hydrocarbons soil	N	As submitted sample	09/12/2019	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	09/12/2019	181	GC-MS
VOC in solids	N	As submitted sample	09/12/2019	181	GC-MS
BTEX in solids	N	As submitted sample	09/12/2019	181A	GC-MS
Total organic carbon/Total sulphur	N	Air dried sample	10/12/2019	210	IR
Aliphatic hydrocarbons in soil	N	As submitted sample	09/12/2019	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	10/12/2019	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	09/12/2019	214	GC-FID
Asbestos identification	U	Air dried sample	09/12/2019	PMAN	Microscopy

Tests marked N are not UKAS accredited



Report Information

Report No.: 19-26087, 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"

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)

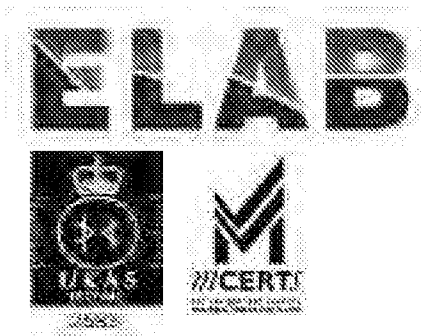
Where a sample has a deviation code, the applicable test result may be invalid.

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



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East Sussex
TN38 9BY

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 19-26125

Issue: 1

Date of Issue: 13/12/2019

Contact: Martin Weil

Customer Details: Leap Environmental Ltd
The Atrium
Curtis Road
Dorking
Surrey RH4 1X4

Quotation No: Q14-00063

Order No: LPO-1330

Customer Reference: LP2128

Date Received: 06/12/2019

Date Approved: 13/12/2019

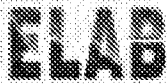
Details: North Littlehampton

Approved by: [Redacted Signature]

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.: 19-26125, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
191688	TP131 0.15	05/12/2019	09/12/2019	Silty loam	
191689	TP131 0.35	05/12/2019	09/12/2019		
191690	TP127 0.15	05/12/2019	09/12/2019	Silty loam	
191691	TP127 0.40	05/12/2019	09/12/2019		
191692	TP129 0.15	05/12/2019	09/12/2019	Silty loam	
191693	TP129 1.00	05/12/2019	09/12/2019		
191694	TP128 0.15	05/12/2019	09/12/2019		
191695	TP128 0.25	05/12/2019	09/12/2019	Silty loam + chalk	
191696	TP120 0.15	05/12/2019	09/12/2019	Silty loam	
191697	TP120 0.45	05/12/2019	09/12/2019		
191698	TP119 0.15	05/12/2019	09/12/2019	Silty loam	
191699	TP119 0.35	05/12/2019	09/12/2019	Sandy silty loam	
191700	TP118 0.10	05/12/2019	09/12/2019	Silty loam	
191701	TP118 0.65	05/12/2019	09/12/2019		
191702	TP104 0.10	05/12/2019	09/12/2019	Silty loam	
191703	TP104 0.60	05/12/2019	09/12/2019		
191704	TP106 0.15	05/12/2019	09/12/2019		
191705	TP106 0.40	05/12/2019	09/12/2019	Sandy silty loam	
191706	BS3 0.40	05/12/2019	09/12/2019	Silty loam + chalk	

Results Summary

Report No.: 19-26125, issue number 1

ELAB Reference				191688	191690	191692
Customer Reference						
Sample ID						
Sample Type				SOIL	SOIL	SOIL
Sample Location				TP131	TP127	TP129
Sample Depth (m)				0.15	0.15	0.15
Sampling Date				05/12/2019	05/12/2019	05/12/2019
Determinand	Codes	Units	LOD			
Soil sample preparation parameters						
Material removed	N	%	0.1	8.3	0.4	< 0.1
Description of Inert material removed	N		0	Stones	Stones	None
Metals						
Arsenic	M	mg/kg	1	12.6	21.0	20.3
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	27.3	28.4	22.3
Copper	M	mg/kg	5	19.7	19.3	15.5
Lead	M	mg/kg	5	32.1	27.2	23.0
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	20.3	18.6	16.1
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	57.0	72.8	64.0
Inorganics						
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8
Miscellaneous						
pH	M	pH units	0.1	8.2	7.1	7.2
Total Organic Carbon	N	%	0.01	1.1	1.9	3.3
Polyaromatic hydrocarbons						
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	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
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4	< 0.4	< 0.4
OrganoChlorine Pesticides						
alpha-HCH	M	ug/kg	10	< 10	n/t	< 10
beta-HCH	M	ug/kg	10	< 10	n/t	< 10
gamma-HCH	M	ug/kg	10	< 10	n/t	< 10
delta-HCH	N	ug/kg	10	< 10	n/t	< 10
Heptachlor	N	ug/kg	10	< 10	n/t	< 10
Aldrin	M	ug/kg	10	< 10	n/t	< 10
Heptachlor epoxide	N	ug/kg	10	< 10	n/t	< 10
trans-Chlordane	N	ug/kg	10	< 10	n/t	< 10
alpha cis-Chlordane	N	ug/kg	10	< 10	n/t	< 10
p,p-DDE	M	ug/kg	10	< 10	n/t	< 10
Dieldrin	M	ug/kg	10	< 10	n/t	< 10
Endrin	N	ug/kg	10	< 10	n/t	< 10
p,p-DDD	M	ug/kg	10	< 10	n/t	< 10
Endosulfan II	N	ug/kg	10	< 10	n/t	< 10
Endrin aldehyde	N	ug/kg	10	< 10	n/t	< 10
p,p-DDT	M	ug/kg	10	< 10	n/t	< 10
Endosulphan sulphate	M	ug/kg	10	< 10	n/t	< 10
Methoxychlor	N	ug/kg	10	< 10	n/t	< 10
Endrin ketone	N	ug/kg	10	< 10	n/t	< 10

Results Summary

Report No.: 19-26125, issue number 1

ELAB Reference	191695	191696	191698	191699	191700	191702	191705	191706
Customer Reference								
Sample ID								
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP128	TP120	TP119	TP119	TP118	TP104	TP106	BS3
Sample Depth (m)	0.25	0.15	0.15	0.35	0.10	0.10	0.40	0.40
Sampling Date	05/12/2019	05/12/2019	05/12/2019	05/12/2019	05/12/2019	05/12/2019	05/12/2019	05/12/2019
Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	< 0.1	< 0.1	0.7	29.9	< 0.1
Description of Inert material removed	N		0	None	None	Stones	Stones	None
Metals								
Arsenic	M	mg/kg	1	^ 13.2	7.9	11.1	7.3	10.1
Cadmium	M	mg/kg	0.5	^ < 0.5	< 0.5	< 0.5	< 0.5	0.6
Chromium	M	mg/kg	5	^ 18.4	16.9	24.8	22.4	23.8
Copper	M	mg/kg	5	^ 14.6	12.6	21.4	13.3	12.1
Lead	M	mg/kg	5	^ 17.3	13.6	20.8	12.4	19.6
Mercury	M	mg/kg	0.5	^ < 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	^ 14.3	12.8	18.2	31.2	16.4
Selenium	M	mg/kg	1	^ < 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	^ 44.7	41.1	81.6	41.1	58.6
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Miscellaneous								
pH	M	pH units	0.1	^ 8.4	8.1	7.7	8.2	8.1
Total Organic Carbon	N	%	0.01	0.51	0.43	0.81	0.15	0.81
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	< 0.1	< 0.1	< 0.1
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	< 0.1	< 0.1	< 0.1
Pyrene	M	mg/kg	0.1	^ < 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	< 0.1
Chrysene	M	mg/kg	0.1	^ < 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	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	^ < 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	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	^ < 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	< 0.1
Benzo(g,h,i)perylene	M	mg/kg	0.1	^ < 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	< 0.4
OrganoChlorine Pesticides								
alpha-HCH	M	ug/kg	10	^ < 10	n/t	n/t	n/t	n/t
beta-HCH	M	ug/kg	10	^ < 10	n/t	n/t	n/t	n/t
gamma-HCH	M	ug/kg	10	^ < 10	n/t	n/t	n/t	n/t
delta-HCH	N	ug/kg	10	< 10	n/t	n/t	n/t	n/t
Heptachlor	N	ug/kg	10	< 10	n/t	n/t	n/t	n/t
Aldrin	M	ug/kg	10	^ < 10	n/t	n/t	n/t	n/t
Heptachlor epoxide	N	ug/kg	10	< 10	n/t	n/t	n/t	n/t
trans-Chlordane	N	ug/kg	10	< 10	n/t	n/t	n/t	n/t
alpha cis-Chlordane	N	ug/kg	10	< 10	n/t	n/t	n/t	n/t
p,p-DDE	M	ug/kg	10	^ < 10	n/t	n/t	n/t	n/t
Dieldrin	M	ug/kg	10	^ < 10	n/t	n/t	n/t	n/t
Endrin	N	ug/kg	10	< 10	n/t	n/t	n/t	n/t
p,p-DDD	M	ug/kg	10	^ < 10	n/t	n/t	n/t	n/t
Endosulfan II	N	ug/kg	10	< 10	n/t	n/t	n/t	n/t
Endrin aldehyde	N	ug/kg	10	< 10	n/t	n/t	n/t	n/t
p,p-DDT	M	ug/kg	10	^ < 10	n/t	n/t	n/t	n/t
Endosulphan sulphate	M	ug/kg	10	^ < 10	n/t	n/t	n/t	n/t
Methoxychlor	N	ug/kg	10	< 10	n/t	n/t	n/t	n/t
Endrin ketone	N	ug/kg	10	< 10	n/t	n/t	n/t	n/t

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Results Summary

Report No.: 19-26125, 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 (%)
191688	0.15	TP131	Brown Soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t
191690	0.15	TP127	Brown Soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t
191692	0.15	TP129	Brown Soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t
191695	0.25	TP128	Brown Soil, Chalk	No asbestos detected	n/t	n/t	n/t	n/t
191696	0.15	TP120	Brown Soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t
191698	0.15	TP119	Brown Soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t
191699	0.35	TP119	Brown Soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t
191700	0.10	TP118	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
191702	0.10	TP104	Brown Soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t
191705	0.40	TP106	Brown Soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t
191706	0.40	BS3	Brown Chalky Soil	No asbestos detected	n/t	n/t	n/t	n/t



Method Summary

Report No.: 19-26125, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	10/12/2019	110	Colorimetry
pH	M	Air dried sample	11/12/2019	113	Electromeric
Aqua regia extractable metals	M	Air dried sample	10/12/2019	118	ICPMS
PAH (GC-FID)	M	As submitted sample	10/12/2019	133	GC-FID
Organochlorine Pesticides in solids	M	As submitted sample	10/12/2019	173	GC-MS
Total organic carbon/Total sulphur	N	Air dried sample	12/12/2019	210	IR
Asbestos identification	U	Air dried sample	11/12/2019	PMAN	Microscopy

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Report Information

Report No.: 19-26125, 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"

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)

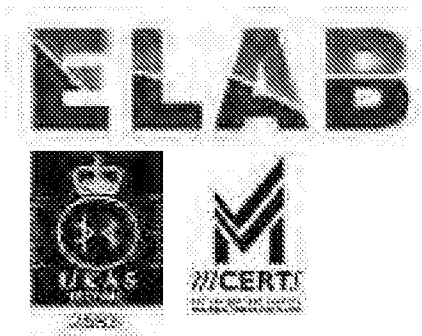
Where a sample has a deviation code, the applicable test result may be invalid.

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: 19-26161

Issue: 1

Date of Issue: 16/12/2019

Contact: Martin Weil

Customer Details: Leap Environmental Ltd
The Atrium
Curtis Road
Dorking
Surrey RH4 1X4

Quotation No: Q14-00063

Order No: Not Supplied

Customer Reference: LP2128

Date Received: 09/12/2019

Date Approved: 16/12/2019

Details: North Littlehampton

Approved by: [Redacted Signature]

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.: 19-26161, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
191896	HP101 0.30	06/12/2019	10/12/2019	Silty loam	
191897	HP101 0.80	06/12/2019	10/12/2019		
191898	TP121 0.15	06/12/2019	10/12/2019	Sandy silty loam	
191899	TP121 0.40	06/12/2019	10/12/2019		
191900	TP122 0.15	06/12/2019	10/12/2019		
191901	TP122 0.40	06/12/2019	10/12/2019	Sandy silty loam	
191902	TP124 0.15	06/12/2019	10/12/2019	Silty loam	
191903	TP125 0.15	06/12/2019	10/12/2019	Silty loam	
191904	TP125 0.40	06/12/2019	10/12/2019		
191905	TP126 0.15	06/12/2019	10/12/2019	Silty loam	c
191906	TP126 0.70	06/12/2019	10/12/2019		
191907	TP133 0.15	06/12/2019	10/12/2019	Silty loam	
191908	TP133 0.80	06/12/2019	10/12/2019	Silty loam	
191909	TP133 1.20	06/12/2019	10/12/2019		
191910	TP134 0.10	06/12/2019	10/12/2019	Silty loam	
191911	TP134 0.60	06/12/2019	10/12/2019		
191912	WS101 0.15	06/12/2019	10/12/2019	Loamy sand	
191913	WS101 0.60	06/12/2019	10/12/2019		
191914	WS102 0.30	06/12/2019	10/12/2019	Chalk	
191915	WS103 0.20	06/12/2019	10/12/2019		
191916	WS103 1.00	06/12/2019	10/12/2019	Silty clayey loam + Chalk	
191917	WS104 0.25	06/12/2019	10/12/2019	Sandy loam	
191918	WS104 0.35	06/12/2019	10/12/2019		
191919	TP126 2.50	06/12/2019	10/12/2019		



Results Summary

Report No.: 19-26161, issue number 1

ELAB Reference	191896	191898	191901	191902	191903
Customer Reference					
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	HP101	TP121	TP122	TP124	TP125
Sample Depth (m)	0.30	0.15	0.40	0.15	0.15
Sampling Date	06/12/2019	06/12/2019	06/12/2019	06/12/2019	06/12/2019
Determinand	Codes	Units	LOD		
Soil sample preparation parameters					
Material removed	N	%	0.1	30.7	17.0
Description of Inert material removed	N		0	Stones	Stones
Metals					
Arsenic	M	mg/kg	1	18.5	11.3
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	26.3	23.9
Copper	M	mg/kg	5	20.6	31.5
Lead	M	mg/kg	5	31.8	18.9
Mercury	M	mg/kg	0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	18.1	18.8
Selenium	M	mg/kg	1	< 1.0	< 1.0
Zinc	M	mg/kg	5	72.0	129
Inorganics					
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8
Miscellaneous					
pH	M	pH units	0.1	7.9	8.3
Total Organic Carbon	N	%	0.01	3.5	0.58
Polyaromatic hydrocarbons					
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	0.4	< 0.1
Pyrene	M	mg/kg	0.1	0.3	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	0.4	< 0.1
Chrysene	M	mg/kg	0.1	0.4	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	0.2	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	0.5	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	0.2	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	0.2	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	0.1	< 0.1
Benzo(g,h,i)perylene	M	mg/kg	0.1	0.3	< 0.1
Total PAH(16)	M	mg/kg	0.4	3.2	< 0.4

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Results Summary

Report No.: 19-26161, issue number 1

ELAB Reference				191896	191898	191901	191902	191903
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				HP101	TP121	TP122	TP124	TP125
Sample Depth (m)				0.30	0.15	0.40	0.15	0.15
Sampling Date				06/12/2019	06/12/2019	06/12/2019	06/12/2019	06/12/2019
Determinand	Codes	Units	LOD					
BTEX								
Benzene	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Toluene	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Ethylbenzene	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Xylenes	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
MTBE	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C10-C12 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C12-C16 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C16-C21 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C21-C35 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C35-C40 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C10-C12 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C12-C16 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C16-C21 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C21-C35 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C35-C40 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t

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Results Summary

Report No.: 19-26161, issue number 1

ELAB Reference				191905	191907	191908	191910	191912
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP126	TP133	TP133	TP134	WS101
Sample Depth (m)				0.15	0.15	0.80	0.10	0.15
Sampling Date				06/12/2019	06/12/2019	06/12/2019	06/12/2019	06/12/2019
Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	4.1	< 0.1	20.2	19.0	32.4
Description of Inert material removed	N		0	Stones	None	Stones	Stones	Stones
Metals								
Arsenic	M	mg/kg	1	20.6	14.3	16.4	21.1	12.6
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6
Chromium	M	mg/kg	5	30.0	29.5	25.8	30.4	24.4
Copper	M	mg/kg	5	19.6	23.5	23.6	21.4	26.1
Lead	M	mg/kg	5	22.6	22.5	43.8	23.6	32.6
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	20.3	18.8	18.8	22.7	16.7
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	64.7	66.9	91.1	74.7	143
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Miscellaneous								
pH	M	pH units	0.1	7.8	7.9	8.5	7.2	10.7
Total Organic Carbon	N	%	0.01	2.2	1.3	0.85	4.1	0.55
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	c < 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	c < 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	c < 0.1	< 0.1	< 0.1	< 0.1	0.1
Fluorene	M	mg/kg	0.1	c < 0.1	< 0.1	< 0.1	< 0.1	0.1
Phenanthrene	M	mg/kg	0.1	c < 0.1	< 0.1	< 0.1	< 0.1	1.2
Anthracene	M	mg/kg	0.1	c < 0.1	< 0.1	< 0.1	< 0.1	0.3
Fluoranthene	M	mg/kg	0.1	c < 0.1	< 0.1	0.1	0.1	2.0
Pyrene	M	mg/kg	0.1	c < 0.1	< 0.1	0.1	< 0.1	1.5
Benzo(a)anthracene	M	mg/kg	0.1	c < 0.1	< 0.1	< 0.1	0.2	0.9
Chrysene	M	mg/kg	0.1	c < 0.1	< 0.1	< 0.1	0.2	1.0
Benzo(b)fluoranthene	M	mg/kg	0.1	c < 0.1	< 0.1	< 0.1	< 0.1	0.9
Benzo(k)fluoranthene	M	mg/kg	0.1	c < 0.1	< 0.1	< 0.1	< 0.1	0.9
Benzo(a)pyrene	M	mg/kg	0.1	c < 0.1	< 0.1	< 0.1	< 0.1	0.9
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	c < 0.1	< 0.1	< 0.1	< 0.1	0.9
Dibenzo(a,h)anthracene	M	mg/kg	0.1	c < 0.1	< 0.1	< 0.1	< 0.1	0.2
Benzo(g,h,i)perylene	M	mg/kg	0.1	c < 0.1	< 0.1	< 0.1	< 0.1	0.9
Total PAH(16)	M	mg/kg	0.4	c < 0.4	< 0.4	0.9	0.9	12.0

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Results Summary

Report No.: 19-26161, issue number 1

ELAB Reference				191905	191907	191908	191910	191912
Customer Reference								
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP126	TP133	TP133	TP134	WS101
Sample Depth (m)				0.15	0.15	0.80	0.10	0.15
Sampling Date				06/12/2019	06/12/2019	06/12/2019	06/12/2019	06/12/2019
Determinand	Codes	Units	LOD					
BTEX								
Benzene	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Toluene	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Ethylbenzene	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Xylenes	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
MTBE	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C10-C12 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C12-C16 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C16-C21 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C21-C35 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C35-C40 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C10-C12 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C12-C16 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C16-C21 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C21-C35 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
>C35-C40 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	n/t	n/t	n/t	n/t

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Results Summary

Report No.: 19-26161, issue number 1

ELAB Reference				191914	191916	191917
Customer Reference						
Sample ID						
Sample Type				SOIL	SOIL	SOIL
Sample Location				WS102	WS103	WS104
Sample Depth (m)				0.30	1.00	0.25
Sampling Date				06/12/2019	06/12/2019	06/12/2019
Determinand	Codes	Units	LOD			
Soil sample preparation parameters						
Material removed	N	%	0.1	< 0.1	< 0.1	8.3
Description of Inert material removed	N		0	None	None	Stones
Metals						
Arsenic	M	mg/kg	1	^ 3.3	^ 18.2	9.3
Cadmium	M	mg/kg	0.5	^ < 0.5	^ < 0.5	0.6
Chromium	M	mg/kg	5	^ 6.5	^ 39.7	20.5
Copper	M	mg/kg	5	^ 12.7	^ 18.6	255
Lead	M	mg/kg	5	^ 6.7	^ 18.0	906
Mercury	M	mg/kg	0.5	^ < 0.5	^ < 0.5	< 0.5
Nickel	M	mg/kg	5	^ 5.9	^ 24.3	10.2
Selenium	M	mg/kg	1	^ < 1.0	^ < 1.0	< 1.0
Zinc	M	mg/kg	5	^ 26.3	^ 66.5	437
Inorganics						
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8
Miscellaneous						
pH	M	pH units	0.1	^ 8.8	^ 8.3	8.5
Total Organic Carbon	N	%	0.01	3.3	0.38	2.4
Polyaromatic hydrocarbons						
Naphthalene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	< 0.1
Fluorene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	< 0.1
Anthracene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	0.2
Pyrene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	0.1
Benzo(a)anthracene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	< 0.1
Chrysene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	0.2
Benzo(a)pyrene	M	mg/kg	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
Dibenzo(a,h)anthracene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	< 0.1
Benzo(g,h,i)perylene	M	mg/kg	0.1	^ < 0.1	^ < 0.1	0.1
Total PAH(16)	M	mg/kg	0.4	^ < 0.4	^ < 0.4	1.1

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Results Summary

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ELAB Reference				191914	191916	191917
Customer Reference						
Sample ID						
Sample Type				SOIL	SOIL	SOIL
Sample Location				WS102	WS103	WS104
Sample Depth (m)				0.30	1.00	0.25
Sampling Date				06/12/2019	06/12/2019	06/12/2019
Determinand	Codes	Units	LOD			
BTEX						
Benzene	N	ug/kg	10	n/t	< 10.0	n/t
Toluene	N	ug/kg	10	n/t	< 10.0	n/t
Ethylbenzene	N	ug/kg	10	n/t	< 10.0	n/t
Xylenes	N	ug/kg	10	n/t	< 10.0	n/t
MTBE	N	ug/kg	10	n/t	< 10.0	n/t
TPH CWG						
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	< 0.01	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	< 0.01	n/t
>C8-C10 Aliphatic	N	mg/kg	1	n/t	< 1.0	n/t
>C10-C12 Aliphatic	N	mg/kg	1	n/t	< 1.0	n/t
>C12-C16 Aliphatic	N	mg/kg	1	n/t	< 1.0	n/t
>C16-C21 Aliphatic	N	mg/kg	1	n/t	< 1.0	n/t
>C21-C35 Aliphatic	N	mg/kg	1	n/t	< 1.0	n/t
>C35-C40 Aliphatic	N	mg/kg	1	n/t	< 1.0	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	< 0.01	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	< 0.01	n/t
>C8-C10 Aromatic	N	mg/kg	1	n/t	< 1.0	n/t
>C10-C12 Aromatic	N	mg/kg	1	n/t	< 1.0	n/t
>C12-C16 Aromatic	N	mg/kg	1	n/t	< 1.0	n/t
>C16-C21 Aromatic	N	mg/kg	1	n/t	< 1.0	n/t
>C21-C35 Aromatic	N	mg/kg	1	n/t	< 1.0	n/t
>C35-C40 Aromatic	N	mg/kg	1	n/t	< 1.0	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	< 1.0	n/t

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Results Summary

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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 (%)
191896	0.30	HP101	Brown soil, stones, plant-material	No asbestos detected	n/t	n/t	n/t	n/t
191898	0.15	TP121	Brown soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
191901	0.40	TP122	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
191902	0.15	TP124	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
191903	0.15	TP125	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
191905	0.15	TP126	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
191907	0.15	TP133	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
191908	0.80	TP133	Brown Soil With Chalk	No asbestos detected	n/t	n/t	n/t	n/t
191910	0.10	TP134	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
191912	0.15	WS101	Brown Soil,Stones,Plastic,Glass	No asbestos detected	n/t	n/t	n/t	n/t
191914	0.30	WS102	Chalk	No asbestos detected	n/t	n/t	n/t	n/t
191916	1.00	WS103	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
191917	0.25	WS104	Brown Soil,Metal,Brick,Stones	No asbestos detected	n/t	n/t	n/t	n/t



Method Summary

Report No.: 19-26161, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	12/12/2019	110	Colorimetry
pH	M	Air dried sample	13/12/2019	113	Electromeric
Aqua regia extractable metals	M	Air dried sample	12/12/2019	118	ICPMS
PAH (GC-FID)	M	As submitted sample	12/12/2019	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	13/12/2019	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	13/12/2019	181	GC-MS
BTEX in solids	N	As submitted sample	13/12/2019	181A	GC-MS
Total organic carbon/Total sulphur	N	Air dried sample	13/12/2019	210	IR
Aliphatic hydrocarbons in soil	N	As submitted sample	12/12/2019	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	13/12/2019	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	12/12/2019	214	GC-FID
Asbestos identification	U	Air dried sample	13/12/2019	PMAN	Microscopy

Tests marked N are not UKAS accredited



Report Information

Report No.: 19-26161, 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"

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)

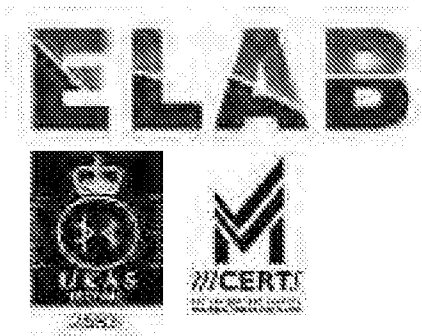
Where a sample has a deviation code, the applicable test result may be invalid.

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



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East Sussex
TN38 9BY

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 19-26215

Issue: 1

Date of Issue: 19/12/2019

Contact: Martin Weil

Customer Details: Leap Environmental Ltd
The Atrium
Curtis Road
Dorking
Surrey RH4 1X4

Quotation No: Q14-00063

Order No: LPO1343

Customer Reference: LP2128

Date Received: 12/12/2019

Date Approved: 19/12/2019

Details: North Littlehampton

Approved by: [Redacted]

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.: 19-26215, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
192319	TP111 S 0.15	09/12/2019	12/12/2019	Sandy silty loam	
192320	TP111 S 0.30	09/12/2019	12/12/2019		
192321	TP105 S 0.15	09/12/2019	12/12/2019	Silty loam	
192322	TP105 S 0.40	09/12/2019	12/12/2019		
192323	TP115 S 0.15	09/12/2019	12/12/2019		
192324	TP115 S 0.40	09/12/2019	12/12/2019	Silty loam	
192325	TP114 S 0.20	09/12/2019	12/12/2019	Silty loam	
192326	TP114 S 0.40	09/12/2019	12/12/2019		
192327	TP113 S 0.10	09/12/2019	12/12/2019		
192328	TP113 S 0.50	09/12/2019	12/12/2019	Silty loam	
192329	TP116 S 0.20	09/12/2019	12/12/2019	Silty loam	
192330	TP116 S 0.40	09/12/2019	12/12/2019		
192331	TP117 S 0.15	09/12/2019	12/12/2019		
192332	TP117 S 0.50	09/12/2019	12/12/2019	Loamy sand	
192333	TP109 S 0.15	09/12/2019	12/12/2019	Silty loam	
192334	TP109 S 0.40	09/12/2019	12/12/2019		
192335	TP102 S 0.15	10/12/2019	12/12/2019		
192336	TP102 S 0.40	10/12/2019	12/12/2019	Silty loam	
192337	TP103 S 0.30	10/12/2019	12/12/2019	Loamy sand	
192338	TP103 S 0.60	10/12/2019	12/12/2019		
192339	TP112 S 0.15	10/12/2019	12/12/2019	Silty loam	
192340	TP112 S 0.40	10/12/2019	12/12/2019		
192341	TP110 S 0.15	10/12/2019	12/12/2019		
192342	TP110 S 0.50	10/12/2019	12/12/2019	Silty loam & Chalk	
192343	TP135 S 0.10	10/12/2019	12/12/2019	Silty loam	
192344	TP135 S 0.30	10/12/2019	12/12/2019		
192345	TP135 S 2.50	10/12/2019	12/12/2019		
192346	TP135 S 2.90	10/12/2019	12/12/2019	Silty loam	
192347	TP108 S 0.15	10/12/2019	12/12/2019	Silty loam	
192348	TP108 S 0.40	10/12/2019	12/12/2019		
192349	WS105 S 0.10	09/12/2019	12/12/2019		
192350	WS106 S 0.10	09/12/2019	12/12/2019	Sandy silty loam	
192351	WS106 S 0.50	09/12/2019	12/12/2019	Silty loam	
192352	WS107 S 0.10	09/12/2019	12/12/2019	Silty loam	
192353	WS107 S 0.50	09/12/2019	12/12/2019	Silty loam	
192354	WS107 S 2.10	09/12/2019	12/12/2019	Silty clayey loam	
192355	TP140 S 0.15	09/12/2019	12/12/2019	Silty loam	
192356	TP140 S 0.60	09/12/2019	12/12/2019		
192357	TP141 S 0.15	09/12/2019	12/12/2019	Silty loam	
192358	TP141 S 0.70	09/12/2019	12/12/2019		
192359	TP142 S 0.15	09/12/2019	12/12/2019		
192360	TP142 S 0.80	09/12/2019	12/12/2019	Silty loam	
192361	WS105 S 0.60	09/12/2019	12/12/2019		
192362	TP126 S 0.50	09/12/2019	12/12/2019		
192363	TP113 FRAG 1 0.50	09/12/2019	12/12/2019		
192364	TP126 S 0.15	09/12/2019	12/12/2019		
192365	TP108 S 0.10	09/12/2019	12/12/2019		



Results Summary

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ELAB Reference				192319	192321	192324	192325	192328
Customer Reference				S	S	S	S	S
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP111	TP105	TP115	TP114	TP113
Sample Depth (m)				0.15	0.15	0.40	0.20	0.50
Sampling Date				09/12/2019	09/12/2019	09/12/2019	09/12/2019	09/12/2019
Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	6.1	9.9	6.7	< 0.1	< 0.1
Description of Inert material removed	N		0	Stones	Stones	Stones	None	None
Metals								
Arsenic	M	mg/kg	1	12.7	13.4	18.0	11.9	13.7
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	26.4	27.6	34.2	27.9	25.7
Copper	M	mg/kg	5	19.3	17.5	20.3	20.8	15.3
Lead	M	mg/kg	5	19.9	24.3	17.0	22.7	12.9
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	22.2	21.9	32.1	20.1	29.2
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	66.9	66.4	69.1	81.3	65.9
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Miscellaneous								
Acid Neutralisation Capacity	N	mol/kg	0.1	< 0.1	n/t	n/t	n/t	n/t
Loss On Ignition (450°C)	M	%	0.01	3.28	n/t	n/t	n/t	n/t
pH	M	pH units	0.1	7.3	6.9	8.1	7.7	7.7
Total Organic Carbon	N	%	0.01	1.4	1.2	0.23	0.75	0.29
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	< 0.1	< 0.1	< 0.1
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	< 0.1	0.1	< 0.1
Pyrene	M	mg/kg	0.1	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	< 0.1
Chrysene	M	mg/kg	0.1	< 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	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 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	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 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	< 0.1
Benzo(g,h,i)perylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	0.8	< 0.4	< 0.4	0.8	< 0.4
Total PAH (Including Coronene GC-FID)	N	mg/kg	2	< 2	n/t	n/t	n/t	n/t
BTEX								
Benzene	N	ug/kg	10	< 10.0	n/t	n/t	n/t	n/t
Toluene	N	ug/kg	10	< 10.0	n/t	n/t	n/t	n/t
Ethylbenzene	N	ug/kg	10	< 10.0	n/t	n/t	n/t	n/t
Xylenes	N	ug/kg	10	< 10.0	n/t	n/t	n/t	n/t
MTBE	N	ug/kg	10	< 10.0	n/t	n/t	n/t	n/t
Total BTEX	N	mg/kg	0.01	< 0.01	n/t	n/t	n/t	n/t

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Results Summary

Report No.: 19-26215, issue number 1

ELAB Reference	192319	192321	192324	192325	192328
Customer Reference	S	S	S	S	S
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP111	TP105	TP115	TP114	TP113
Sample Depth (m)	0.15	0.15	0.40	0.20	0.50
Sampling Date	09/12/2019	09/12/2019	09/12/2019	09/12/2019	09/12/2019

Determinand	Codes	Units	LOD					
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	n/t	n/t	n/t	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	n/t	n/t	n/t	n/t
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	n/t	n/t	n/t	n/t
>C10-C12 Aliphatic	N	mg/kg	1	< 1.0	n/t	n/t	n/t	n/t
>C12-C16 Aliphatic	N	mg/kg	1	< 1.0	n/t	n/t	n/t	n/t
>C16-C21 Aliphatic	N	mg/kg	1	< 1.0	n/t	n/t	n/t	n/t
>C21-C35 Aliphatic	N	mg/kg	1	< 1.0	n/t	n/t	n/t	n/t
>C35-C40 Aliphatic	N	mg/kg	1	< 1.0	n/t	n/t	n/t	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	n/t	n/t	n/t	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01	n/t	n/t	n/t	n/t
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	n/t	n/t	n/t	n/t
>C10-C12 Aromatic	N	mg/kg	1	< 1.0	n/t	n/t	n/t	n/t
>C12-C16 Aromatic	N	mg/kg	1	< 1.0	n/t	n/t	n/t	n/t
>C16-C21 Aromatic	N	mg/kg	1	< 1.0	n/t	n/t	n/t	n/t
>C21-C35 Aromatic	N	mg/kg	1	2.4	n/t	n/t	n/t	n/t
>C35-C40 Aromatic	N	mg/kg	1	< 1.0	n/t	n/t	n/t	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	2.4	n/t	n/t	n/t	n/t
Total Petroleum Hydrocarbons								
Mineral Oil	M	mg/kg	5	[^] < 5	n/t	n/t	n/t	n/t
PCB (ICES 7 congeners)								
PCB (Total of 7 Congeners)	M	mg/kg	0.03	< 0.03	n/t	n/t	n/t	n/t
OrganoChlorine Pesticides								
alpha-HCH	M	ug/kg	10	n/t	< 10	n/t	n/t	n/t
beta-HCH	M	ug/kg	10	n/t	< 10	n/t	n/t	n/t
gamma-HCH	M	ug/kg	10	n/t	< 10	n/t	n/t	n/t
delta-HCH	N	ug/kg	10	n/t	< 10	n/t	n/t	n/t
Heptachlor	N	ug/kg	10	n/t	< 10	n/t	n/t	n/t
Aldrin	M	ug/kg	10	n/t	< 10	n/t	n/t	n/t
Heptachlor epoxide	N	ug/kg	10	n/t	< 10	n/t	n/t	n/t
trans-Chlordane	N	ug/kg	10	n/t	< 10	n/t	n/t	n/t
alpha cis-Chlordane	N	ug/kg	10	n/t	< 10	n/t	n/t	n/t
p,p-DDE	M	ug/kg	10	n/t	< 10	n/t	n/t	n/t
Dieldrin	M	ug/kg	10	n/t	< 10	n/t	n/t	n/t
Endrin	N	ug/kg	10	n/t	< 10	n/t	n/t	n/t
p,p-DDD	M	ug/kg	10	n/t	< 10	n/t	n/t	n/t
Endosulfan II	N	ug/kg	10	n/t	< 10	n/t	n/t	n/t
Endrin aldehyde	N	ug/kg	10	n/t	< 10	n/t	n/t	n/t
p,p-DDT	M	ug/kg	10	n/t	< 10	n/t	n/t	n/t
Endosulphan sulphate	M	ug/kg	10	n/t	< 10	n/t	n/t	n/t
Methoxychlor	N	ug/kg	10	n/t	< 10	n/t	n/t	n/t
Endrin ketone	N	ug/kg	10	n/t	< 10	n/t	n/t	n/t

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Results Summary

Report No.: 19-26215, issue number 1

ELAB Reference	192329	192332	192333	192336	192337
Customer Reference	S	S	S	S	S
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP116	TP117	TP109	TP102	TP103
Sample Depth (m)	0.20	0.50	0.15	0.40	0.30
Sampling Date	09/12/2019	09/12/2019	09/12/2019	10/12/2019	10/12/2019
Determinand	Codes	Units	LOD		
Soil sample preparation parameters					
Material removed	N	%	0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	None	None
Metals					
Arsenic	M	mg/kg	1	10.8	20.5
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	22.5	24.4
Copper	M	mg/kg	5	16.9	14.6
Lead	M	mg/kg	5	20.8	12.3
Mercury	M	mg/kg	0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	18.0	38.2
Selenium	M	mg/kg	1	< 1.0	< 1.0
Zinc	M	mg/kg	5	63.3	61.8
Inorganics					
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8
Miscellaneous					
Acid Neutralisation Capacity	N	mol/kg	0.1	n/t	< 0.1
Loss On Ignition (450°C)	M	%	0.01	n/t	0.27
pH	M	pH units	0.1	7.3	8.3
Total Organic Carbon	N	%	0.01	0.70	0.05
Polyaromatic hydrocarbons					
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	M	mg/kg	0.1	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4	< 0.4
Total PAH (Including Coronene GC-FID)	N	mg/kg	2	n/t	< 2
BTEX					
Benzene	N	ug/kg	10	n/t	n/t
Toluene	N	ug/kg	10	n/t	n/t
Ethylbenzene	N	ug/kg	10	n/t	n/t
Xylenes	N	ug/kg	10	n/t	n/t
MTBE	N	ug/kg	10	n/t	n/t
Total BTEX	N	mg/kg	0.01	n/t	< 0.01

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Results Summary

Report No.: 19-26215, issue number 1

ELAB Reference	192329	192332	192333	192336	192337
Customer Reference	S	S	S	S	S
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP116	TP117	TP109	TP102	TP103
Sample Depth (m)	0.20	0.50	0.15	0.40	0.30
Sampling Date	09/12/2019	09/12/2019	09/12/2019	10/12/2019	10/12/2019

Determinand	Codes	Units	LOD					
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C10-C12 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C12-C16 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C16-C21 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C21-C35 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	2.9
>C35-C40 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C10-C12 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C12-C16 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C16-C21 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C21-C35 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	7.4
>C35-C40 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	n/t	n/t	n/t	10.3
Total Petroleum Hydrocarbons								
Mineral Oil	M	mg/kg	5	n/t	^ < 5	n/t	n/t	^ 29
PCB (ICES 7 congeners)								
PCB (Total of 7 Congeners)	M	mg/kg	0.03	n/t	< 0.03	n/t	n/t	< 0.03
OrganoChlorine Pesticides								
alpha-HCH	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
beta HCH	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
gamma-HCH	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
delta-HCH	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Heptachlor	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Aldrin	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Heptachlor epoxide	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
trans-Chlordane	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
alpha cis-Chlordane	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
p,p-DDE	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Dieldrin	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Endrin	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
p,p-DDD	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Endosulfan II	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Endrin aldehyde	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
p,p-DDT	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Endosulphan sulphate	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Methoxychlor	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Endrin ketone	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t

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Results Summary

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ELAB Reference				192339	192342	192343	192346	192347
Customer Reference				S	S	S	S	S
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				TP112	TP110	TP135	TP135	TP108
Sample Depth (m)				0.15	0.50	0.10	2.90	0.15
Sampling Date				10/12/2019	10/12/2019	10/12/2019	10/12/2019	10/12/2019
Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	< 0.1	< 0.1	9.4	< 0.1	< 0.1
Description of Inert material removed	N		0	None	None	Stones	None	None
Metals								
Arsenic	M	mg/kg	1	13.6	^ 9.2	14.8	21.1	18.1
Cadmium	M	mg/kg	0.5	0.9	^ < 0.5	0.6	0.6	0.6
Chromium	M	mg/kg	5	28.9	^ 19.2	25.8	22.1	25.3
Copper	M	mg/kg	5	17.7	^ 11.8	21.4	16.5	17.7
Lead	M	mg/kg	5	23.1	^ 11.5	27.5	28.7	28.8
Mercury	M	mg/kg	0.5	< 0.5	^ < 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	23.7	^ 18.2	19.5	20.1	21.2
Selenium	M	mg/kg	1	< 1.0	^ < 1.0	1.4	1.5	< 1.0
Zinc	M	mg/kg	5	70.5	^ 46.1	81.8	103	78.5
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Miscellaneous								
Acid Neutralisation Capacity	N	mol/kg	0.1	n/t	n/t	n/t	n/t	n/t
Loss On Ignition (450°C)	M	%	0.01	n/t	n/t	n/t	n/t	n/t
pH	M	pH units	0.1	7.9	^ 8.0	7.8	7.7	7.7
Total Organic Carbon	N	%	0.01	0.56	0.14	4.8	3.8	1.0
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	< 0.1	< 0.1	< 0.1
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	0.4	< 0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 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	< 0.1
Chrysene	M	mg/kg	0.1	< 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	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 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	< 0.1
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	^ < 0.1	0.2	< 0.1	< 0.1
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	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4	^ < 0.4	1.1	< 0.4	< 0.4
Total PAH (Including Coronene GC-FID)	N	mg/kg	2	n/t	n/t	n/t	n/t	n/t
BTEX								
Benzene	N	ug/kg	10	n/t	n/t	n/t	< 10.0	n/t
Toluene	N	ug/kg	10	n/t	n/t	n/t	< 10.0	n/t
Ethylbenzene	N	ug/kg	10	n/t	n/t	n/t	< 10.0	n/t
Xylenes	N	ug/kg	10	n/t	n/t	n/t	< 10.0	n/t
MTBE	N	ug/kg	10	n/t	n/t	n/t	< 10.0	n/t
Total BTEX	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t

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Results Summary

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ELAB Reference	192339	192342	192343	192346	192347
Customer Reference	S	S	S	S	S
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	TP112	TP110	TP135	TP135	TP108
Sample Depth (m)	0.15	0.50	0.10	2.90	0.15
Sampling Date	10/12/2019	10/12/2019	10/12/2019	10/12/2019	10/12/2019

Determinand	Codes	Units	LOD					
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	< 0.01	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	< 0.01	n/t
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	< 1.0	n/t
>C10-C12 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	< 1.0	n/t
>C12-C16 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	< 1.0	n/t
>C16-C21 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	< 1.0	n/t
>C21-C35 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	< 1.0	n/t
>C35-C40 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	< 1.0	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	< 0.01	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	< 0.01	n/t
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t	n/t	< 1.0	n/t
>C10-C12 Aromatic	N	mg/kg	1	n/t	n/t	n/t	< 1.0	n/t
>C12-C16 Aromatic	N	mg/kg	1	n/t	n/t	n/t	< 1.0	n/t
>C16-C21 Aromatic	N	mg/kg	1	n/t	n/t	n/t	< 1.0	n/t
>C21-C35 Aromatic	N	mg/kg	1	n/t	n/t	n/t	4.1	n/t
>C35-C40 Aromatic	N	mg/kg	1	n/t	n/t	n/t	< 1.0	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	n/t	n/t	4.1	n/t
Total Petroleum Hydrocarbons								
Mineral Oil	M	mg/kg	5	n/t	n/t	n/t	n/t	n/t
PCB (ICES 7 congeners)								
PCB (Total of 7 Congeners)	M	mg/kg	0.03	n/t	n/t	n/t	n/t	n/t
OrganoChlorine Pesticides								
alpha-HCH	M	ug/kg	10	< 10	n/t	< 10	n/t	< 10
beta-HCH	M	ug/kg	10	< 10	n/t	< 10	n/t	< 10
gamma-HCH	M	ug/kg	10	< 10	n/t	< 10	n/t	< 10
delta-HCH	N	ug/kg	10	< 10	n/t	< 10	n/t	< 10
Heptachlor	N	ug/kg	10	< 10	n/t	< 10	n/t	< 10
Aldrin	M	ug/kg	10	< 10	n/t	< 10	n/t	< 10
Heptachlor epoxide	N	ug/kg	10	< 10	n/t	< 10	n/t	< 10
trans-Chlordane	N	ug/kg	10	< 10	n/t	< 10	n/t	< 10
alpha cis-Chlordane	N	ug/kg	10	< 10	n/t	< 10	n/t	< 10
p,p-DDE	M	ug/kg	10	< 10	n/t	< 10	n/t	< 10
Dieldrin	M	ug/kg	10	< 10	n/t	< 10	n/t	< 10
Endrin	N	ug/kg	10	< 10	n/t	< 10	n/t	< 10
p,p-DDD	M	ug/kg	10	< 10	n/t	< 10	n/t	< 10
Endosulfan II	N	ug/kg	10	< 10	n/t	< 10	n/t	< 10
Endrin aldehyde	N	ug/kg	10	< 10	n/t	< 10	n/t	< 10
p,p-DDT	M	ug/kg	10	< 10	n/t	< 10	n/t	< 10
Endosulphan sulphate	M	ug/kg	10	< 10	n/t	< 10	n/t	< 10
Methoxychlor	N	ug/kg	10	< 10	n/t	< 10	n/t	< 10
Endrin ketone	N	ug/kg	10	< 10	n/t	< 10	n/t	< 10

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Results Summary

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ELAB Reference				192350	192351	192352	192353	192354
Customer Reference				S	S	S	S	S
Sample ID								
Sample Type				SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location				WS106	WS106	WS107	WS107	WS107
Sample Depth (m)				0.10	0.50	0.10	0.50	2.10
Sampling Date				09/12/2019	09/12/2019	09/12/2019	09/12/2019	09/12/2019
Determinand	Codes	Units	LOD					
Soil sample preparation parameters								
Material removed	N	%	0.1	64.5	< 0.1	< 0.1	< 0.1	n/t
Description of Inert material removed	N		0	Stones	None	None	None	n/t
Metals								
Arsenic	M	mg/kg	1	n/t	n/t	13.4	n/t	n/t
Cadmium	M	mg/kg	0.5	n/t	n/t	< 0.5	n/t	n/t
Chromium	M	mg/kg	5	n/t	n/t	30.6	n/t	n/t
Copper	M	mg/kg	5	n/t	n/t	19.5	n/t	n/t
Lead	M	mg/kg	5	n/t	n/t	16.6	n/t	n/t
Mercury	M	mg/kg	0.5	n/t	n/t	< 0.5	n/t	n/t
Nickel	M	mg/kg	5	n/t	n/t	27.0	n/t	n/t
Selenium	M	mg/kg	1	n/t	n/t	< 1.0	n/t	n/t
Zinc	M	mg/kg	5	n/t	n/t	106	n/t	n/t
Inorganics								
Hexavalent Chromium	N	mg/kg	0.8	n/t	n/t	< 0.8	n/t	n/t
Miscellaneous								
Acid Neutralisation Capacity	N	mol/kg	0.1	n/t	n/t	n/t	n/t	n/t
Loss On Ignition (450°C)	M	%	0.01	n/t	n/t	n/t	n/t	n/t
pH	M	pH units	0.1	n/t	n/t	8.0	n/t	n/t
Total Organic Carbon	N	%	0.01	0.42	0.65	0.54	0.58	n/t
Polyaromatic hydrocarbons								
Naphthalene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Acenaphthylene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Acenaphthene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Fluorene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Phenanthrene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Anthracene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Fluoranthene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Pyrene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Benzo(a)anthracene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Chrysene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Benzo(b)fluoranthene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Benzo(k)fluoranthene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Benzo(a)pyrene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Dibenzo(a,h)anthracene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Benzo(g,h,i)perylene	M	mg/kg	0.1	n/t	n/t	< 0.1	n/t	n/t
Total PAH(16)	M	mg/kg	0.4	n/t	n/t	< 0.4	n/t	n/t
Total PAH (Including Coronene GC-FID)	N	mg/kg	2	n/t	n/t	n/t	n/t	n/t
BTEX								
Benzene	N	ug/kg	10	n/t	n/t	n/t	n/t	< 10.0
Toluene	N	ug/kg	10	n/t	n/t	n/t	n/t	< 10.0
Ethylbenzene	N	ug/kg	10	n/t	n/t	n/t	n/t	< 10.0
Xylenes	N	ug/kg	10	n/t	n/t	n/t	n/t	< 10.0
MTBE	N	ug/kg	10	n/t	n/t	n/t	n/t	< 10.0
Total BTEX	N	mg/kg	0.01	n/t	n/t	n/t	n/t	n/t

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Results Summary

Report No.: 19-26215, issue number 1

ELAB Reference	192350	192351	192352	192353	192354
Customer Reference	S	S	S	S	S
Sample ID					
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	WS106	WS106	WS107	WS107	WS107
Sample Depth (m)	0.10	0.50	0.10	0.50	2.10
Sampling Date	09/12/2019	09/12/2019	09/12/2019	09/12/2019	09/12/2019

Determinand	Codes	Units	LOD					
TPH CWG								
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C10-C12 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C12-C16 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C16-C21 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C21-C35 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C35-C40 Aliphatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t	n/t	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C10-C12 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C12-C16 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C16-C21 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
>C21-C35 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	2.6
>C35-C40 Aromatic	N	mg/kg	1	n/t	n/t	n/t	n/t	< 1.0
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	n/t	n/t	n/t	2.6
Total Petroleum Hydrocarbons								
Mineral Oil	M	mg/kg	5	n/t	n/t	n/t	n/t	n/t
PCB (ICES 7 congeners)								
PCB (Total of 7 Congeners)	M	mg/kg	0.03	n/t	n/t	n/t	n/t	n/t
OrganoChlorine Pesticides								
alpha-HCH	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
beta-HCH	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
gamma-HCH	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
delta-HCH	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Heptachlor	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Aldrin	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Heptachlor epoxide	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
trans-Chlordane	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
alpha cis-Chlordane	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
p,p-DDE	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Dieldrin	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Endrin	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
p,p-DDD	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Endosulfan II	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Endrin aldehyde	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
p,p-DDT	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Endosulphan sulphate	M	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Methoxychlor	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t
Endrin ketone	N	ug/kg	10	n/t	n/t	n/t	n/t	n/t

Tests marked N are not UKAS accredited.

The Environmental Laboratory Ltd, Reg. No. 3882193



Results Summary

Report No.: 19-26215, issue number 1

ELAB Reference	192355	192357	192360
Customer Reference	S	S	S
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	TP140	TP141	TP142
Sample Depth (m)	0.15	0.15	0.80
Sampling Date	09/12/2019	09/12/2019	09/12/2019

Determinand	Codes	Units	LOD			
Soil sample preparation parameters						
Material removed	N	%	0.1	< 0.1	< 0.1	< 0.1
Description of Inert material removed	N		0	None	None	None
Metals						
Arsenic	M	mg/kg	1	9.5	10.4	10.0
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	24.2	25.0	28.4
Copper	M	mg/kg	5	17.8	24.8	14.4
Lead	M	mg/kg	5	22.2	49.0	13.8
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	17.7	17.4	17.7
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	56.8	70.0	54.9
Inorganics						
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8
Miscellaneous						
Acid Neutralisation Capacity	N	mol/kg	0.1	n/t	n/t	n/t
Loss On Ignition (450°C)	M	%	0.01	n/t	n/t	n/t
pH	M	pH units	0.1	7.0	6.2	6.9
Total Organic Carbon	N	%	0.01	0.52	1.6	0.31
Polyaromatic hydrocarbons						
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Chrysene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	M	mg/kg	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
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Total PAH(16)	M	mg/kg	0.4	< 0.4	< 0.4	< 0.4
Total PAH (Including Coronene GC-FID)	N	mg/kg	2	n/t	n/t	n/t
BTEX						
Benzene	N	ug/kg	10	n/t	n/t	n/t
Toluene	N	ug/kg	10	n/t	n/t	n/t
Ethylbenzene	N	ug/kg	10	n/t	n/t	n/t
Xylenes	N	ug/kg	10	n/t	n/t	n/t
MTBE	N	ug/kg	10	n/t	n/t	n/t
Total BTEX	N	mg/kg	0.01	n/t	n/t	n/t

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The Environmental Laboratory Ltd, Reg. No. 3882193



Results Summary

Report No.: 19-26215, issue number 1

ELAB Reference	192355	192357	192360
Customer Reference	S	S	S
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	TP140	TP141	TP142
Sample Depth (m)	0.15	0.15	0.80
Sampling Date	09/12/2019	09/12/2019	09/12/2019

Determinand	Codes	Units	LOD			
TPH CWG						
>C5-C6 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t
>C6-C8 Aliphatic	N	mg/kg	0.01	n/t	n/t	n/t
>C8-C10 Aliphatic	N	mg/kg	1	n/t	n/t	n/t
>C10-C12 Aliphatic	N	mg/kg	1	n/t	n/t	n/t
>C12-C16 Aliphatic	N	mg/kg	1	n/t	n/t	n/t
>C16-C21 Aliphatic	N	mg/kg	1	n/t	n/t	n/t
>C21-C35 Aliphatic	N	mg/kg	1	n/t	n/t	n/t
>C35-C40 Aliphatic	N	mg/kg	1	n/t	n/t	n/t
>C5-C7 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t
>C7-C8 Aromatic	N	mg/kg	0.01	n/t	n/t	n/t
>C8-C10 Aromatic	N	mg/kg	1	n/t	n/t	n/t
>C10-C12 Aromatic	N	mg/kg	1	n/t	n/t	n/t
>C12-C16 Aromatic	N	mg/kg	1	n/t	n/t	n/t
>C16-C21 Aromatic	N	mg/kg	1	n/t	n/t	n/t
>C21-C35 Aromatic	N	mg/kg	1	n/t	n/t	n/t
>C35-C40 Aromatic	N	mg/kg	1	n/t	n/t	n/t
Total (>C5-C40) Ali/Aro	N	mg/kg	1	n/t	n/t	n/t
Total Petroleum Hydrocarbons						
Mineral Oil	M	mg/kg	5	n/t	n/t	n/t
PCB (ICES 7 congeners)						
PCB (Total of 7 Congeners)	M	mg/kg	0.03	n/t	n/t	n/t
OrganoChlorine Pesticides						
alpha-HCH	M	ug/kg	10	n/t	< 10	n/t
beta HCH	M	ug/kg	10	n/t	< 10	n/t
gamma-HCH	M	ug/kg	10	n/t	< 10	n/t
delta-HCH	N	ug/kg	10	n/t	< 10	n/t
Heptachlor	N	ug/kg	10	n/t	< 10	n/t
Aldrin	M	ug/kg	10	n/t	< 10	n/t
Heptachlor epoxide	N	ug/kg	10	n/t	< 10	n/t
trans-Chlordane	N	ug/kg	10	n/t	< 10	n/t
alpha cis-Chlordane	N	ug/kg	10	n/t	< 10	n/t
p,p-DDE	M	ug/kg	10	n/t	< 10	n/t
Dieldrin	M	ug/kg	10	n/t	< 10	n/t
Endrin	N	ug/kg	10	n/t	< 10	n/t
p,p-DDD	M	ug/kg	10	n/t	< 10	n/t
Endosulfan II	N	ug/kg	10	n/t	< 10	n/t
Endrin aldehyde	N	ug/kg	10	n/t	< 10	n/t
p,p-DDT	M	ug/kg	10	n/t	< 10	n/t
Endosulphan sulphate	M	ug/kg	10	n/t	< 10	n/t
Methoxychlor	N	ug/kg	10	n/t	< 10	n/t
Endrin ketone	N	ug/kg	10	n/t	< 10	n/t

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The Environmental Laboratory Ltd, Reg. No. 3882193



Results Summary

Report No.: 19-26215, issue number 1

ELAB Reference	192354
Customer Reference	S
Sample ID	
Sample Type	SOIL
Sample Location	WS107
Sample Depth (m)	2.10
Sampling Date	09/12/2019

Determinand	Codes	Units	LOD	
VOC				
Heptane	N	ug/kg	10	< 10.0
Octane	N	ug/kg	10	< 10.0
Nonane	N	ug/kg	10	< 10.0
Benzene	N	ug/kg	10	< 10.0
Toluene	N	ug/kg	10	< 10.0
Ethylbenzene	N	ug/kg	10	< 10.0
m+p-xylene	N	ug/kg	10	< 10.0
o-xylene	N	ug/kg	10	< 10.0
cis-1,2-dichloroethene	N	ug/kg	10	< 10.0
1,1-Dichloroethane	N	ug/kg	10	< 10.0
Chloroform	N	ug/kg	10	< 10.0
Tetrachloromethane	N	ug/kg	10	< 10.0
1,1,1-Trichloroethane	N	ug/kg	10	< 10.0
Trichloroethylene	N	ug/kg	10	< 10.0
Tetrachloroethylene	N	ug/kg	10	< 10.0
1,1,1,2-Tetrachloroethane	N	ug/kg	10	< 10.0
1,1,2,2-Tetrachloroethane	N	ug/kg	10	< 10.0
Chlorobenzene	N	ug/kg	10	< 10.0
Bromobenzene	N	ug/kg	10	< 10.0
Bromodichloromethane	N	ug/kg	10	< 10.0
Methylethylbenzene	N	ug/kg	10	< 10.0
1,1-Dichloro-1-propene	N	ug/kg	10	< 10.0
Trans - 1,2 -dichloroethylene	N	ug/kg	10	< 10.0
2,2-Dichloropropane	N	ug/kg	10	< 10.0
Bromochloromethane	N	ug/kg	10	< 10.0
1,2-Dichloroethane	N	ug/kg	10	< 10.0
Dibromomethane	N	ug/kg	10	< 10.0
1,2-Dichloropropane	N	ug/kg	10	< 10.0
cis-1,3-Dichloro-1-propene	N	ug/kg	10	< 10.0
trans-1,3-Dichloro-1-propene	N	ug/kg	10	< 10.0
1,1,2-Trichloroethane	N	ug/kg	10	< 10.0
Dibromochloromethane	N	ug/kg	10	< 10.0
1,3-Dichloropropane	N	ug/kg	10	< 10.0
1,2-dibromoethane	N	ug/kg	10	< 10.0
Styrene	N	ug/kg	10	< 10.0
Propylbenzene	N	ug/kg	10	< 10.0
2-Chlorotoluene	N	ug/kg	10	< 10.0
1,2,4-Trimethylbenzene	N	ug/kg	10	< 10.0
4-Chlorotoluene	N	ug/kg	10	< 10.0
t-butylbenzene	N	ug/kg	10	< 10.0
1,3,5-Trimethylbenzene	N	ug/kg	10	< 10.0
1-methylpropylbenzene	N	ug/kg	10	< 10.0
p-cymene	N	ug/kg	10	< 10.0
1,3-Dichlorobenzene	N	ug/kg	10	< 10.0
Butylbenzene	N	ug/kg	10	< 10.0
1,2-Dibromo-3-chloropropane	N	ug/kg	10	< 10.0
Hexachlorobutadiene	N	ug/kg	10	< 10.0
1,2,3 - Trichlorobenzene	N	ug/kg	10	< 10.0
Naphthalene	N	ug/kg	10	< 10.0
1,2,4 - Trichlorobenzene	N	ug/kg	10	< 10.0
1,4-Dichlorobenzene	N	ug/kg	10	< 10.0
1,2-Dichlorobenzene	N	ug/kg	10	< 10.0
Bromoform	N	ug/kg	10	< 10.0

Tests marked N are not UKAS accredited.

The Environmental Laboratory Ltd, Reg. No. 3882193

Results Summary

Report No.: 19-26215, issue number 1

WAC Analysis

Elab Ref:	192337				Landfill Waste Acceptance Criteria Limits*		
Sample Date:	10/12/2019				Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	TP103 S						
Depth (m)	0.3						
Site:	North Littlehampton						
Determinand		Code	Units				
Total Organic Carbon		N	%	3.20	3	5	6
Loss on Ignition		M	%	2.1	--	--	10
Total BTEX		M	mg/kg	< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg	< 0.03	1	--	--
TPH Total WAC		M	mg/kg	29	500	--	--
Total (of 17) PAHs		N	mg/kg	6.0	100	--	--
pH		M		8.5	--	>6	--
Acid Neutralisation Capacity		N	mol/kg	< 0.1	--	To evaluate	To evaluate
Eluate Analysis			10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
			mg/l	mg/kg			
Arsenic		N	0.016	0.16	0.5	2	25
Barium		N	0.036	0.36	20	100	300
Cadmium		N	< 0.001	< 0.01	0.04	1	5
Chromium		N	< 0.005	< 0.05	0.5	10	70
Copper		N	0.005	0.05	2	50	100
Mercury		N	< 0.005	< 0.01	0.01	0.2	2
Molybdenum		N	0.005	0.05	0.5	10	30
Nickel		N	< 0.001	< 0.05	0.4	10	40
Lead		N	< 0.001	< 0.05	0.5	10	50
Antimony		N	< 0.005	< 0.05	0.06	0.7	5
Selenium		N	< 0.005	< 0.05	0.1	0.5	7
Zinc		N	< 0.005	< 0.05	4	50	200
Chloride		N	5	52.00	800	15000	25000
Fluoride		N	< 5	< 10	10	150	500
Sulphate		N	14	144.00	1000	20000	50000
Total Dissolved Solids		N	94	939.00	4000	60000	100000
Phenol Index		N	< 0.01	< 0.10	1	-	-
Dissolved Organic Carbon		N	0.990	< 10	500	800	1000
Leach Test Information							
pH		N	8.1				
Conductivity (uS/cm)		N	140				
Dry mass of test portion (g)			102.000				
Dry Matter (%)			89				
Moisture (%)			13				
Eluent Volume (ml)			982				

Results are expressed on a dry weight basis, after correction for moisture content where applicable

* Stated limits are for guidance only, and not for conformity assessment.

Results Summary

Report No.: 19-26215, issue number 1

WAC Analysis

Elab Ref:	192332				Landfill Waste Acceptance Criteria Limits*		
Sample Date:	09/12/2019				Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	TP117 S						
Depth (m)	0.5						
Site:	North Littlehampton						
Determinand		Code	Units				
Total Organic Carbon		N	%	0.05	3	5	6
Loss on Ignition		M	%	0.3	--	--	10
Total BTEX		M	mg/kg	< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg	< 0.03	1	--	--
TPH Total WAC		M	mg/kg	< 5	500	--	--
Total (of 17) PAHs		N	mg/kg	< 2	100	--	--
pH		M		8.3	--	>6	--
Acid Neutralisation Capacity		N	mol/kg	< 0.1	--	To evaluate	To evaluate
Eluate Analysis			10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
			mg/l	mg/kg			
Arsenic		N	< 0.005	< 0.05	0.5	2	25
Barium		N	< 0.005	< 0.05	20	100	300
Cadmium		N	< 0.001	< 0.01	0.04	1	5
Chromium		N	< 0.005	< 0.05	0.5	10	70
Copper		N	< 0.005	< 0.05	2	50	100
Mercury		N	< 0.005	< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005	< 0.05	0.5	10	30
Nickel		N	< 0.001	< 0.05	0.4	10	40
Lead		N	< 0.001	< 0.05	0.5	10	50
Antimony		N	< 0.005	< 0.05	0.06	0.7	5
Selenium		N	< 0.005	< 0.05	0.1	0.5	7
Zinc		N	< 0.005	< 0.05	4	50	200
Chloride		N	5	54.00	800	15000	25000
Fluoride		N	< 5	< 10	10	150	500
Sulphate		N	4	42.80	1000	20000	50000
Total Dissolved Solids		N	82	815.00	4000	60000	100000
Phenol Index		N	< 0.01	< 0.10	1	-	-
Dissolved Organic Carbon		N	2.640	26.00	500	800	1000
Leach Test Information							
pH		N	8.2				
Conductivity (uS/cm)		N	122				
Dry mass of test portion (g)			104.000				
Dry Matter (%)			92				
Moisture (%)			9				
Eluent Volume (ml)			1010				

Results are expressed on a dry weight basis, after correction for moisture content where applicable

* Stated limits are for guidance only, and not for conformity assessment.

Results Summary

Report No.: 19-26215, issue number 1

WAC Analysis

Elab Ref:	192319				Landfill Waste Acceptance Criteria Limits*		
Sample Date:	09/12/2019				Inert Waste Landfill	Stable Non-reactive Hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:	TP111 S						
Depth (m)	0.15						
Site:	North Littlehampton						
Determinand		Code	Units				
Total Organic Carbon		N	%	1.40	3	5	6
Loss on Ignition		M	%	3.3	–	–	10
Total BTEX		M	mg/kg	< 0.01	6	–	–
Total PCBs (7 congeners)		M	mg/kg	< 0.03	1	–	–
TPH Total WAC		M	mg/kg	< 5	500	–	–
Total (of 17) PAHs		N	mg/kg	< 2	100	–	–
pH		M		7.3	–	>6	–
Acid Neutralisation Capacity		N	mol/kg	< 0.1	–	To evaluate	To evaluate
Eluate Analysis			10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
			mg/l	mg/kg			
Arsenic		N	< 0.005	< 0.05	0.5	2	25
Barium		N	< 0.005	< 0.05	20	100	300
Cadmium		N	< 0.001	< 0.01	0.04	1	5
Chromium		N	< 0.005	< 0.05	0.5	10	70
Copper		N	0.007	0.07	2	50	100
Mercury		N	< 0.005	< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005	< 0.05	0.5	10	30
Nickel		N	0.001	< 0.05	0.4	10	40
Lead		N	< 0.001	< 0.05	0.5	10	50
Antimony		N	< 0.005	< 0.05	0.06	0.7	5
Selenium		N	< 0.005	< 0.05	0.1	0.5	7
Zinc		N	< 0.005	< 0.05	4	50	200
Chloride		N	5	53.00	800	15000	25000
Fluoride		N	< 5	< 10	10	150	500
Sulphate		N	3	28.60	1000	20000	50000
Total Dissolved Solids		N	96	963.00	4000	60000	100000
Phenol Index		N	< 0.01	< 0.10	1	-	-
Dissolved Organic Carbon		N	7.920	79.00	500	800	1000
Leach Test Information							
pH		N	7.9				
Conductivity (uS/cm)		N	144				
Dry mass of test portion (g)			101.000				
Dry Matter (%)			84				
Moisture (%)			19				
Eluent Volume (ml)			956				

Results are expressed on a dry weight basis, after correction for moisture content where applicable

* Stated limits are for guidance only, and not for conformity assessment.



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Results Summary

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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 (%)
192319	0.15	TP111 S	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
192321	0.15	TP105 S	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
192324	0.40	TP115 S	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
192325	0.20	TP114 S	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
192328	0.50	TP113 S	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
192329	0.20	TP116 S	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
192332	0.50	TP117 S	Brown Sandy soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
192333	0.15	TP109 S	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
192336	0.40	TP102 S	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
192337	0.30	TP103 S	Brown Sandy Soil,Stones,Clinker	No asbestos detected	n/t	n/t	n/t	n/t
192339	0.15	TP112 S	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
192342	0.50	TP110 S	Brown Soil With Chalk	No asbestos detected	n/t	n/t	n/t	n/t
192343	0.10	TP135 S	Brown Soil,Stones,Concrete,Root	No asbestos detected	n/t	n/t	n/t	n/t
192346	2.90	TP135 S	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
192347	0.15	TP108 S	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
192352	0.10	WS107 S	Brown Soil,Stones	Chrysotile (Cement)	n/t	n/t	n/t	n/t
192355	0.15	TP140 S	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
192357	0.15	TP141 S	Brown Soil,Stones	No asbestos detected	n/t	n/t	n/t	n/t
192360	0.80	TP142 S	Brown Soil	No asbestos detected	n/t	n/t	n/t	n/t
192363	0.80	TP113 FRAG 1	Cement	Chrysotile	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					
Hexavalent chromium	N	As submitted sample	16/12/2019	110	Colorimetry
Aqua regia extractable metals	M	Air dried sample	16/12/2019	118	ICPMS
PAH (GC-FID)	M	As submitted sample	16/12/2019	133	GC-FID
Organochlorine Pesticides in solids	M	As submitted sample	16/12/2019	173	GC-MS
Low range Aliphatic hydrocarbons soil	N	As submitted sample	16/12/2019	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	16/12/2019	181	GC-MS
VOC in solids	N	As submitted sample	16/12/2019	181	GC-MS
Aliphatic hydrocarbons in soil	N	As submitted sample	16/12/2019	214	GC-FID
Aliphatic/Aromatic hydrocarbons in soil	N	As submitted sample	17/12/2019	214	GC-FID
Aromatic hydrocarbons in soil	N	As submitted sample	16/12/2019	214	GC-FID
Asbestos identification	U	Air dried sample	18/12/2019	PMAN	Microscopy
Leachate					
Arsenic	N		18/12/2019	101	ICPMS
Cadmium	N		18/12/2019	101	ICPMS
Chromium	N		18/12/2019	101	ICPMS
Lead	N		18/12/2019	101	ICPMS
Nickel	N		18/12/2019	101	ICPMS
Copper	N		18/12/2019	101	ICPMS
Zinc	N		18/12/2019	101	ICPMS
Mercury	N		18/12/2019	101	ICPMS
Selenium	N		18/12/2019	101	ICPMS
Antimony	N		18/12/2019	101	ICPMS
Barium	N		18/12/2019	101	ICPMS
Molybdenum	N		18/12/2019	101	ICPMS
pH Value	N		18/12/2019	113	Electrometric
Electrical Conductivity	N		18/12/2019	136	Probe
Dissolved Organic Carbon	N		18/12/2019	102	TOC analyser
Chloride	N		18/12/2019	131	Ion Chromatography
Fluoride	N		18/12/2019	131	Ion Chromatography
Sulphate	N		18/12/2019	131	Ion Chromatography
Total Dissolved Solids	N		18/12/2019	144	Gravimetric
Phenol index	N		18/12/2019	121	HPLC
WAC Solids analysis	N				
pH Value	M	Air dried sample	18/12/2019	113	Electrometric
Total Organic Carbon	N	Air dried sample	18/12/2019	210	IR
Loss on Ignition	M	Air dried sample	19/12/2019	129	Gravimetric
Acid Neutralization Capacity to pH 7	N	Air dried sample	18/12/2019	NEN 737	Electrometric
Total BTEX	N	As submitted sample	16/12/2019	181	GCMS
Mineral Oil	M	As submitted sample	16/12/2019	117	GCFID
Total PCBs (7 congeners)	M	Air dried sample	16/12/2019	120	GCMS
Total PAH (17)	N	As submitted sample	17/12/2019	133	GCFID

Tests marked N are not UKAS accredited



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"

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