



Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
Telephone: (01424) 718618

cs@elab-uk.co.uk
info@elab-uk.co.uk

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 20-26619

Issue: 1

Date of Issue: 27/01/2020

Contact: Stuart Guy

Customer Details: Stuart Guy Consulting
5 Willow Heights
Cradley Heath
West Midlands B64 7PL

Quotation No: Q14-00070

Order No: 20-01-01

Customer Reference: 13-12-01

Date Received: 20/01/2020

Date Approved: 27/01/2020

Details: Donington

Approved by: 

Mike Varley, Technical Manager

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Sample Summary

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Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
194815	Plot 1, No.1 Mixed	17/01/2020	20/01/2020	Sandy silty loam	
194816	Plot 1, No.2 Mixed	17/01/2020	20/01/2020	Sandy silty loam	
194817	Plot 5 Mixed	17/01/2020	20/01/2020	Sandy silty loam	

Results Summary

2683

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ELAB Reference	194815	194816	194817
Customer Reference	Mixed	Mixed	Mixed
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	Plot 1, No.1	Plot 1, No.2	Plot 5
Sample Depth (m)			
Sampling Date	17/01/2020	17/01/2020	17/01/2020

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	15.0	16.7	15.4
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	22.8	26.2	17.9
Copper	M	mg/kg	5	19.8	20.2	15.6
Lead	M	mg/kg	5	21.6	26.2	32.6
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	17.4	20.9	11.7
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	52.0	66.4	51.9
Inorganics						
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8
Polyaromatic hydrocarbons						
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	< 0.1	0.3	< 0.1
Acenaphthene	M	mg/kg	0.1	< 0.1	0.9	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	0.9	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	10.1	0.2
Anthracene	M	mg/kg	0.1	< 0.1	3.2	< 0.1
Fluoranthene	M	mg/kg	0.1	< 0.1	18.2	0.6
Pyrene	M	mg/kg	0.1	< 0.1	13.7	0.5
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	8.4	0.3
Chrysene	M	mg/kg	0.1	< 0.1	8.8	0.5
Benzo(b)fluoranthene	M	mg/kg	0.1	< 0.1	6.9	0.3
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	7.2	0.3
Benzo(a)pyrene	M	mg/kg	0.1	< 0.1	7.7	0.3
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	< 0.1	5.1	0.3
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	1.4	< 0.1
Benzo(g,h,i)perylene	M	mg/kg	0.1	< 0.1	4.2	0.2
Total PAH(16)	M	mg/kg	0.4	< 0.4	97.1	3.8

Results Summary

2683

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ELAB Reference	194815	194816	194817
Customer Reference	Mixed	Mixed	Mixed
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	Plot 1, No.1	Plot 1, No.2	Plot 5
Sample Depth (m)			
Sampling Date	17/01/2020	17/01/2020	17/01/2020

Determinand	Codes	Units	LOD			
TPH CWG						
>C5-C6 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic	M	mg/kg	1	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic	M	mg/kg	1	< 1.0	< 1.0	< 1.0
>C16-C21 Aliphatic	M	mg/kg	1	< 1.0	< 1.0	< 1.0
>C21-C35 Aliphatic	M	mg/kg	1	< 1.0	1.4	< 1.0
>C35-C40 Aliphatic	M	mg/kg	1	< 1.0	< 1.0	< 1.0
Total aliphatic hydrocarbons (>C5 - C40)	N	mg/kg	1	1.9	2.5	< 1.0
>C5-C7 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
>C7-C8 Aromatic	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic	N	mg/kg	1	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic	M	mg/kg	1	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic	M	mg/kg	1	< 1.0	< 1.0	< 1.0
>C16-C21 Aromatic	M	mg/kg	1	< 1.0	< 1.0	< 1.0
>C21-C35 Aromatic	M	mg/kg	1	5.8	9.4	< 1.0
>C35-C40 Aromatic	M	mg/kg	1	4.3	5.9	< 1.0
Total aromatic hydrocarbons (>C5 - C40)	N	mg/kg	1	11.0	17.0	< 1.0
Total petroleum hydrocarbons (>C5 - C40)	N	mg/kg	1	12.8	19.6	< 1.0



Method Summary

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Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	22/01/2020	110	Colorimetry
Aqua regia extractable metals	M	Air dried sample	22/01/2020	118	ICPMS
PAH (GC-FID)	M	As submitted sample	22/01/2020	133	GC-FID
Low range Aliphatic hydrocarbons soil	N	As submitted sample	23/01/2020	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	23/01/2020	181	GC-MS
TPH CWG soil by gc-gc	M	As submitted sample	20/01/2020	214	

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