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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 21-32193

Issue: 1

Date of Issue: 24/02/2021

Contact: Keith Elson

Customer Details: Hemsley Consulting Ltd
Park Farm
Unit 9
Wivelsfield Green
West Sussex RH17 7RU

Quotation No: Q14-00022


Order No: Not Supplied

Customer Reference: Not Supplied

Date Received: 18/02/2021

Date Approved: 24/02/2021

Details: 21 Hoskins Road, Oxted RH8 9HT

Approved by: 

Mike Varley, Technical Manager

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Sample Summary

Report No.: 21-32193, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
227921	BH1 0.30	17/02/2021	18/02/2021	Sandy loam	
227922	BH2 0.30	17/02/2021	18/02/2021	Sandy loam	
227923	BH3 0.30	17/02/2021	18/02/2021	Sandy loam	

Results Summary

Report No.: 21-32193, issue number 1

ELAB Reference	227921	227922	227923
Customer Reference			
Sample ID			
Sample Type	SOIL	SOIL	SOIL
Sample Location	BH1	BH2	BH3
Sample Depth (m)	0.30	0.30	0.30
Sampling Date	17/02/2021	17/02/2021	17/02/2021

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	24.8	23.5	41.0
Cadmium	M	mg/kg	0.5	< 0.5	< 0.5	0.6
Chromium	M	mg/kg	5	44.2	39.4	61.8
Copper	M	mg/kg	5	21.0	339	39.1
Lead	M	mg/kg	5	74.5	622	103
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	31.1	27.7	40.0
Selenium	M	mg/kg	1	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	88.4	512	109
Inorganics						
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8
Water Soluble Boron	N	mg/kg	0.5	0.6	0.7	0.5
Miscellaneous						
pH	M	pH units	0.1	9.1	8.4	8.5
Polyaromatic hydrocarbons						
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1	0.2	< 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	0.3	< 0.1	0.2
Anthracene	M	mg/kg	0.1	0.1	< 0.1	< 0.1
Fluoranthene	M	mg/kg	0.1	1.2	< 0.1	0.5
Pyrene	M	mg/kg	0.1	1.1	< 0.1	0.4
Benzo(a)anthracene	M	mg/kg	0.1	0.8	< 0.1	0.3
Chrysene	M	mg/kg	0.1	0.9	< 0.1	0.3
Benzo(b)fluoranthene	M	mg/kg	0.1	1.0	< 0.1	0.2
Benzo(k)fluoranthene	M	mg/kg	0.1	1.0	< 0.1	0.2
Benzo(a)pyrene	M	mg/kg	0.1	0.9	< 0.1	0.3
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	0.8	< 0.1	0.2
Dibenzo(a,h)anthracene	M	mg/kg	0.1	0.2	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	0.7	< 0.1	0.2
Total PAH(16)	M	mg/kg	0.4	9.3	< 0.4	2.9



Method Summary

Report No.: 21-32193, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	22/02/2021	110	Colorimetry
pH	M	Air dried sample	22/02/2021	113	Electromeric
PAH (GC-FID)	M	As submitted sample	22/02/2021	133	GC-FID
Water soluble boron	N	Air dried sample	22/02/2021	202	Colorimetry
Aqua regia extractable metals	M	Air dried sample	22/02/2021	300	ICPMS

Tests marked N are not UKAS accredited



Report Information

Report No.: 21-32193, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

LOD LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
ELAB are unable to provide an interpretation or opinion on the content of this report.
The results relate only to the sample received.
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request
Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

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

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

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage