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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 16-08696

Issue: 1

Date of Issue: 29/09/2016

Contact: Stuart Guy

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

Quotation No: Q14-00070

Order No: Not Supplied

Customer Reference: 16-09-01

Date Received: 23/09/2016

Date Approved: 29/09/2016

Details: Donington

Approved by: 

John Wilson, Operations Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683)



Sample Summary

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Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
74220	Stock 1	22/09/2016	23/09/2016	Sandy silty loam	
74221	Stock 2	22/09/2016	23/09/2016	Sandy silty loam	
74222	Stock 3	22/09/2016	23/09/2016	Sandy silty loam	
74223	HD1 0.40	22/09/2016	23/09/2016	Sandy silty loam	
74224	HD2 0.40	22/09/2016	23/09/2016	Sandy silty loam	
74225	HD3 0.40	22/09/2016	23/09/2016	Sandy silty loam	

Results Summary

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ELAB Reference	74220	74221	74222	74223	74224	74225
Customer Reference						
Sample ID						
Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Location	Stock 1	Stock 2	Stock 3	HD1	HD2	HD3
Sample Depth (m)				0.40	0.40	0.40
Sampling Date	22/09/2016	22/09/2016	22/09/2016	22/09/2016	22/09/2016	22/09/2016

Determinand	Codes	Units	LOD						
Metals									
Arsenic	M	mg/kg	1	19.2	19.4	12.7	8.6	11.8	12.0
Cadmium	M	mg/kg	0.5	0.6	0.6	< 0.5	< 0.5	< 0.5	< 0.5
Chromium	M	mg/kg	5	35.6	37.5	29.5	13.7	18.8	17.7
Copper	M	mg/kg	5	15.9	16.0	16.5	16.5	15.5	15.4
Lead	M	mg/kg	5	31.5	30.4	33.1	35.7	38.3	37.6
Mercury	M	mg/kg	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Nickel	M	mg/kg	5	30.2	31.1	27.9	13.3	16.4	15.5
Selenium	M	mg/kg	1	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5	99.5	102	86.1	63.7	87.9	81.9
Inorganics									
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Organics									
>C8-C10 BCB	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 BCB	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 BCB	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 BCB	N	mg/kg	1	< 1.0	< 1.0	< 1.0	4.2	1.9	< 1.0
>C21-C35 BCB	N	mg/kg	1	< 1.0	< 1.0	11.5	160	33.5	21.5
>C35-C40 BCB	N	mg/kg	1	< 1.0	< 1.0	3.8	62.6	9.4	5.2
Total (>C8-C40) BCB	N	mg/kg	1	< 1.0	< 1.0	15.4	227	44.7	26.7
Polyaromatic hydrocarbons									
Naphthalene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	0.2	0.3	0.2
Acenaphthylene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	0.3	0.4	0.3
Acenaphthene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	2.0	0.2	< 0.1
Fluorene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	0.9	0.1	< 0.1
Phenanthrene	M	mg/kg	0.1	< 0.1	< 0.1	0.1	15.9	0.9	0.3
Anthracene	M	mg/kg	0.1	< 0.1	< 0.1	< 0.1	5.1	0.4	0.2
Fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	0.5	27.7	3.5	1.5
Pyrene	M	mg/kg	0.1	< 0.1	< 0.1	0.4	24.5	3.0	1.3
Benzo(a)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	0.4	11.1	2.3	1.1
Chrysene	M	mg/kg	0.1	< 0.1	< 0.1	0.6	11.7	2.4	1.3
Benzo (b) fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	0.4	10.5	2.7	1.7
Benzo(k)fluoranthene	M	mg/kg	0.1	< 0.1	< 0.1	0.3	11.2	2.7	1.6
Benzo (a) pyrene	M	mg/kg	0.1	< 0.1	< 0.1	0.5	10.5	3.4	2.0
Indeno (1,2,3-cd) pyrene	M	mg/kg	0.1	< 0.1	< 0.1	0.5	7.3	2.5	1.7
Dibenzo(a,h)anthracene	M	mg/kg	0.1	< 0.1	< 0.1	0.2	1.6	0.6	0.4
Benzo[g,h,i]perylene	M	mg/kg	0.1	< 0.1	< 0.1	0.6	6.5	2.7	1.7
Total PAH(16)	M	mg/kg	0.4	< 0.4	< 0.4	4.7	147	28.0	15.4



Method Summary

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Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Hexavalent chromium	N	As submitted sample	28/09/2016	110	Colorimetry
Aqua regia extractable metals	M	Air dried sample	27/09/2016	118	ICPMS
PAH (GC-FID)	M	As submitted sample	26/09/2016	133	GC-FID
Basic carbon banding in soil	N	As submitted sample	26/09/2016	218	GC-FID

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
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

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

PCB congener results may include any coeluting PCBs

Uncertainty of measurement for the determinands tested are available upon request

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