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THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number: 23-49624

Issue: 1

Date of Issue: 25/08/2023

Contact: Paul Hamill

Customer Details: Circular Waste Solutions
10 Meadow Street
Avonmouth
Bristol
BS11 9AR

Quotation No: Q22-03686

Order No: Not Supplied

Customer Reference: Standard Ash Suite

Date Received: 18/08/2023

Date Approved: 25/08/2023

Details: WBE

Approved by:

Graham Knight, Lab 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.: 23-49624, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
335050	BA160823 Ash	16/08/2023	18/08/2023	Ash	



2683

Results Summary

Report No.: 23-49624, issue number 1

ELAB Reference	335050
Customer Reference	Ash
Sample ID	
Sample Type	SOIL
Sample Location	BA160823
Sample Depth (m)	
Sampling Date	16/08/2023

Determinand	Codes	Units	LOD	
Soil sample preparation parameters				
Moisture Content	N	%	0.1	13.3
Stones Content	N	%	0.1	29.6
Material removed	N	%	0.1	29.6
Description of Inert material removed	N		0	Stones
Metals				
Antimony	N	mg/kg	0.5	8.9
Arsenic	M	mg/kg	0.5	^ 53.6
Cadmium	M	mg/kg	0.2	^ 1.9
Chromium	M	mg/kg	1	^ 95.5
Cobalt	M	mg/kg	0.2	^ 10.9
Copper	M	mg/kg	4	^ 407
Lead	M	mg/kg	1	^ 399
Manganese	U	mg/kg	1.5	1060
Mercury	M	mg/kg	0.1	^ < 0.1
Nickel	M	mg/kg	1	^ 31.8
Thallium	U	mg/kg	0.2	< 0.2
Vanadium	M	mg/kg	0.5	^ 34.4
Zinc	M	mg/kg	4.5	^ 759
Miscellaneous				
pH	M	pH units	0.1	^ 12.5
Total Organic Carbon	N	%	0.01	0.69
Alkali reserve value	N	% NaOH	0.01	2.48

Method Summary

Report No.: 23-49624, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
pH	M	Air dried sample	21/08/2023	113	Electromeric
Acid neutralisation capacity	N	Air dried sample	25/08/2023	122	
Total organic carbon/Total sulphur	N	Air dried sample	22/08/2023	210	IR
Aqua regia extractable metals	M	Air dried sample	21/08/2023	300	ICPMS

Tests marked N are not UKAS accredited

Report Information

Report No.: 23-49624, 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

TPH Classification - HWOL Acronym System

HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
2D	GC-GC - Double coil gas chromatography
#1	EH_Total but with humics mathematically subtracted
#2	EH_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry