

Our Ref: EFS/197260 (Ver. 1)

Your Ref:

April 2, 2019



Environmental Chemistry

SOCOTEC UK Limited

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Mark Evason  
H Evason & Co  
Lower Wayford  
Dorrington  
Shrewsbury  
SY5 7EE

For the attention of Mark Evason

Dear Mark Evason

**Sample Analysis - H.Evason**

Samples from the above site have been analysed in accordance with the schedule supplied.

The sample details and the results of analyses for these samples are given in the appended report.

An invoice for this work will follow under a separate cover.

Where appropriate the samples will be kept until 06/05/19 when they will be discarded. Please call 01283 554463 for an extension of this date.

Please be aware that our policy for the retention of paper based laboratory records and analysis reports is 6 years.

The work was carried out in accordance with SOCOTEC UK Limited (Multi-Sector Services) Standard Terms and Conditions of Contract.

If I can be of any further assistance please do not hesitate to contact me.

Yours sincerely

for SOCOTEC UK Limited

A handwritten signature in black ink, appearing to read 'C Lamb', written in a cursive style.

C Lamb

Project Co-ordinator

01283 554463

# TEST REPORT



Report No. EFS/197260 (Ver. 1)

H Evason & Co  
Lower Wayford  
Dorrington  
Shrewsbury  
SY5 7EE

**Site: H.Evason**

The 1 sample described in this report were registered for analysis by SOCOTEC UK Limited on 25-Mar-2019. This report supersedes any versions previously issued by the laboratory.

The analysis was completed by: 02-Apr-2019

Tests where the accreditation is set to N or No, and any individual data items marked with a \* are not UKAS accredited. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The following tables are contained in this report:

Table 1 Main Analysis Results (Pages 2 to 4)  
Table of WAC Analysis Results (Page 5)  
Analytical and Deviating Sample Overview (Page 6)  
Table of Method Descriptions (Page 7)  
Table of Report Notes (Page 8)  
Table of Sample Descriptions (Appendix A Page 1 of 1)

On behalf of  
SOCOTEC UK Lim  
Becky Batham

A handwritten signature in blue ink, appearing to read 'R. Batham'.

Operations Manager  
Energy & Waste Services

Date of Issue: 02-Apr-2019

Tests marked '^' have been subcontracted to another laboratory.

Where samples have been flagged as deviant on the Analytical and Deviating Sample Overview, for any reason, the data may not be representative of the sample at the point of sampling and the validity of the data may be affected. SOCOTEC UK Limited accepts no responsibility for any sampling not carried out by our personnel.







## WASTE ACCEPTANCE CRITERIA TESTING BSEN 12457/3

<b>Client</b>	H Evason & Co			<b>Leaching Data</b>	
				Weight of sample (kg)	0.232
<b>Contact</b>	Mark Evason			Moisture content @ 105°C (% of Wet Weight)	5.2
				Equivalent Weight based on drying at 105°C (kg)	0.225
<b>Site</b>	H.Evason			Volume of water required to carry out 2:1 stage (litres)	0.443
				Fraction of sample above 4 mm %	45.200
<b>Sample Description</b>		<b>Report No</b>	<b>Sample No</b>	<b>Issue Date</b>	Fraction of non-crushable material %
DSG200319 WAC		s19_7260	CL/1952586	02-Apr-19	Volume to undertake analysis (2:1 Stage) (litres)
					Weight of Deionised water to carry out 8:1 stage (kg)
					0.000
					0.300
					1.650

**Note: The >4mm fraction is crushed using a disc mill**

Accreditation	Method Code	Solid Waste Analysis (Dry Basis)	Concentration in Solid (Dry Weight Basis)	Landfill Waste Acceptance Criteria Limit Values		
				Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
U	WSLM59	Total Organic Carbon (% M/M)	0.98	3	5	6
	LOI450	Loss on Ignition (%)				10
U	BTEXHSA	Sum of BTEX (mg/kg)	<0.0631	6		
U	PCBUSECD	Sum of 7 Congener PCB's (mg/kg)	<0.035	1		
U	TPHFIDUS	Mineral Oil (mg/kg)	204	500		
N	PAHMSUS	PAH Sum of 17 (mg/kg)	<1.59	100		
	PHSOIL	pH (pH units)			>6	
	ANC	Acid Neutralisation Capacity (mol/kg) @pH 7			To be evaluated	To be evaluated

Accreditation	Method Code	Leachate Analysis	2:1 Leachate		8:1 Leachate		Calculated amount leached @ 2:1	Calculated cumulative amount leached @ 10:1	Landfill Waste Acceptance Criteria Limit Values for BSEN 12457/3 @ L/S 10 litre kg-1		
			mg/l except <sup>00</sup>		mg/kg (dry weight)				mg/kg (dry weight)		
			7.7	8	Calculated data not UKAS Accredited						
U	WSLM3	pH (pH units) <sup>00</sup>	7.7	8	Calculated data not UKAS Accredited						
U	WSLM2	Conductivity (µs/cm) <sup>00</sup>	475	118	Calculated data not UKAS Accredited						
U	ICPMSW	Arsenic	0.003	0.004	0.006	0.04	0.5	2	25		
U	ICPWATVAR	Barium	0.02	<0.01	0.04	<0.1	20	100	300		
U	ICPMSW	Cadmium	<0.0001	<0.0001	<0.0002	<0.001	0.04	1	5		
U	ICPMSW	Chromium	0.001	<0.001	0.002	<0.01	0.5	10	70		
U	ICPMSW	Copper	0.009	0.004	0.018	0.05	2	50	100		
U	ICPMSW	Mercury	<0.0001	<0.0001	<0.0002	<0.001	0.01	0.2	2		
U	ICPMSW	Molybdenum	0.019	0.003	0.038	0.05	0.5	10	30		
U	ICPMSW	Nickel	<0.001	<0.001	<0.002	<0.01	0.4	10	40		
U	ICPMSW	Lead	<0.001	<0.001	<0.002	<0.01	0.5	10	50		
U	ICPMSW	Antimony	0.003	0.002	0.006	0.02	0.06	0.7	5		
U	ICPMSW	Selenium	0.001	<0.001	0.002	<0.01	0.1	0.5	7		
U	ICPMSW	Zinc	<0.002	<0.002	<0.004	<0.02	4	50	200		
U	KONENS	Chloride	26	<1	52	<43	800	15000	25000		
U	ISEF	Fluoride	0.5	0.4	1	4	10	150	500		
U	ICPWATVAR	Sulphate as SO4	117	14	234	277	1000	20000	50000		
N	WSLM27	Total Dissolved Solids	371	92.1	742	1293	4000	60000	100000		
U	SFAPI	Phenol Index	<0.05	<0.05	<0.1	<0.5	1				
N	WSLM13	Dissolved Organic Carbon	22	3.9	44	63	500	800	1000		

Template Ver. 1

Landfill Waste Acceptance Criteria limit values correct as of 11th March 2009.

Tests where the accreditation is set to U are UKAS accredited, those where the accreditation is set to N are not UKAS accredited

Customer H Evason & Co  
Site H.Evason  
Report No S197260

Consignment No S83766  
Date Logged 25-Mar-2019  
In-House Report Due 01-Apr-2019

Please note the results for any subcontracted analysis (identified with a '^') is likely to take up to an additional five working days.

ID Number	Description	MethodID	BTEXHSA	CEN Leac(P)1	CEN Leac(P)2	REPORT A	PAH (17) by GCMS	PCBEC7	TMS	TPH BAND	WISLMS9
			BTEX-HSA + MTBE analysis	MTBE (µg/kg)					PCB-7 Congeners Analysis	Tot.Moisture @ 105C	TPH Band (>C10-C40)
CL/1952586	DSG200319 WAC	20/03/19	✓	✓			✓	✓	✓	✓	✓

**Note: We will endeavour to prioritise samples to complete analysis within holding time; however any delay could result in samples becoming deviant whilst being processed in the laboratory.**

**If sampling dates are missing or matrices unclassified then results will not be ISO 17025 accredited. Please contact us as soon as possible to provide missing information in order to reinstate accreditation.**

Deviating Sample Key	
A	The sample was received in an inappropriate container for this analysis
B	The sample was received without the correct preservation for this analysis
C	Headspace present in the sample container
D	The sampling date was not supplied so holding time may be compromised - applicable to all analysis
E	Sample processing did not commence within the appropriate holding time
F	Sample processing did not commence within the appropriate handling time
Requested Analysis Key	
■	Analysis Required
■	Analysis dependant upon trigger result - <b>Note: due date may be affected if triggered</b>
□	No analysis scheduled
^	Analysis Subcontracted - <b>Note: due date may vary</b>

# Method Descriptions

Matrix	MethodID	Analysis Basis	Method Description
Soil	BTEXHSA	As Received	Determination of Benzene, Toluene, Ethyl benzene and Xylenes (BTEX) by Headspace GCFID
Soil	PAHMSUS	As Received	Determination of Polycyclic Aromatic Hydrocarbons (PAH) by hexane/acetone extraction followed by GCMS detection
Soil	PCBECD	As Received	Determination of Polychlorinated Biphenyl (PCB) congeners/arocloris by hexane/acetone extraction followed by GCECD detection
Soil	TMSS	As Received	Determination of the Total Moisture content at 105°C by loss on oven drying gravimetric analysis (% based upon wet weight)
Soil	TPHFIDUS	As Received	Determination of hexane/acetone extractable Hydrocarbons in soil with GCFID detection.
Soil	WSLM59	Oven Dried @ < 35°C	Determination of Organic Carbon in soil using sulphurous Acid digestion followed by high temperature combustion and IR detection
Water	ICPMSW	As Received	Direct quantitative determination of Metals in water samples using ICPMS
Water	ICPWATVAR	As Received	Direct determination of Metals and Sulphate in water samples using ICPOES
Water	ISEF	As Received	Determination of Fluoride in water samples by Ion Selective Electrode (ISE)
Water	KONENS	As Received	Direct analysis using discrete colorimetric analysis
Water	SFAPI	As Received	Segmented flow analysis with colorimetric detection
Water	WSLM13	As Received	Instrumental analysis using acid/persulphate digestion and non-dispersive IR detection
Water	WSLM2	As Received	Determination of the Electrical Conductivity ( $\mu\text{S}/\text{cm}$ ) by electrical conductivity probe.
Water	WSLM27	As Received	Gravimetric Determination
Water	WSLM3	As Received	Determination of the pH of water samples by pH probe

Where individual results are flagged see report notes for status.



# Report Notes

## Generic Notes

### Soil/Solid Analysis

Unless stated otherwise,

- Results expressed as mg/kg have been calculated on the basis indicated in the Method Description table.  
All results on MCERTS reports are reported on a 105°C dry weight basis with the exception of pH and conductivity.
- Sulphate analysis not conducted in accordance with BS1377
- Water Soluble Sulphate is on a 2:1 water:soil extract

### Waters Analysis

Unless stated otherwise results are expressed as mg/l

**Nil:** Where "Nil" has been entered against Total Alkalinity or Total Acidity this indicates that a measurement was not required due to the inherent pH of the sample.

### Oil analysis specific

Unless stated otherwise,

- Results are expressed as mg/kg
- SG is expressed as g/cm<sup>3</sup> @ 15°C

### Gas (Tedlar bag) Analysis

Unless stated otherwise, results are expressed as ug/l

### Asbestos Analysis

**CH** Denotes Chrysotile

**TR** Denotes Tremolite

**CR** Denotes Crocidolite

**AC** Denotes Actinolite

**AM** Denotes Amosite

**AN** Denotes Anthophyllite

**NAIIS** No Asbestos Identified in Sample

**NADIS** No Asbestos Detected In Sample

## Symbol Reference

^ Sub-contracted analysis.

\$\$ Unable to analyse due to the nature of the sample

¶ Samples submitted for this analyte were not preserved on site in accordance with laboratory protocols.

This may have resulted in deterioration of the sample(s) during transit to the laboratory.

Consequently the reported data may not represent the concentration of the target analyte present in the sample at the time of sampling

¥ Results for guidance only due to possible interference

& Blank corrected result

I.S Insufficient sample to complete requested analysis

I.S(g) Insufficient sample to re-analyse, results for guidance only

Intf Unable to analyse due to interferences

N.D Not determined

N.Det Not detected

N.F No Flow

NS Information Not Supplied

Req Analysis requested, see attached sheets for results

▯ Raised detection limit due to nature of the sample

\* All accreditation has been removed by the laboratory for this result

‡ MCERTS accreditation has been removed for this result

§ accreditation has been removed for this result as it is a non-accredited matrix

**Note:** The Laboratory may only claim that data is accredited when all of the requirements of our Quality System have been met. Where these requirements have not been met the laboratory may elect to include the data in its final report and remove the accreditation from individual data items if it believes that the validity of the data has not been affected. If further details are required of the circumstances which have led to the removal of accreditation then please do not hesitate to contact the laboratory.

