

CERTIFICATE OF SAMPLING - SOIL MATERIAL

Laboratory reference no(s) : **23-93634 - 715354** Head Office Certificate No : **715354-23-93634-0-S1**

Client : **Commercial Recycling (Southern) Limited**

Certificate address : **Canford Recycling Centre, Arena Way
Wimborne
Dorset
BH21 3BW**

Contract : **Canford Recycling Centre - Dry Screening Testing**

Source of material (as indicated by client) : **Ex-site**

Client reference/data : **Sample 10**

Material description : **20mm Recycled Topsoil**

Analysis required : **PSD (Wet Sieve), Contamination Suite**

Client's indicated specification(s) : **N/A**

Material type : **Soil** Nominal dimension : **<20** mm

Date sampled : **05/05/2023** Time sampled :

Sampled by : **O.McNeil**

Location of sample on site : **Stockpile**

Type of sample : **Disturbed** Sampling plan : **N/A**

Site sample no : **OM691** Total mass rec'd : **25.000** kg

Variation from sampling procedure : **N/A**

Comments on sample:
(e.g. contamination/excess moisture/organic deposit) **None**

Weather conditions : **Overcast** Air temperature : **DNR** °C

Remarks : **None**

 Approved : 

 Date : **23/05/2023**

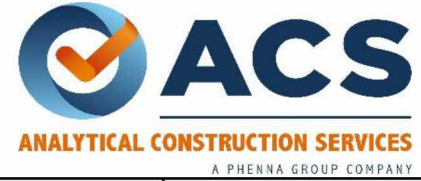
Bulk samples will be retained for a minimum of 21 days from date of receipt unless a written instruction is received within 14 days of receipt requesting sample retention.

Page 1 of 1

Ref	S01	Apr-21	Fig	S01	ACS Testing Limited
Any opinions or interpretations indicated are outside the scope of our accreditation The results included within this test report are representative of the samples submitted for analysis This report shall not be reproduced, except in full, without the express permission of the laboratory See remarks section for any additions, deviations or exclusions from the stated test method					Unit 14, Blackhill Road West Holton Heath Trading Park Poole Dorset BH16 6LE 01202 622858

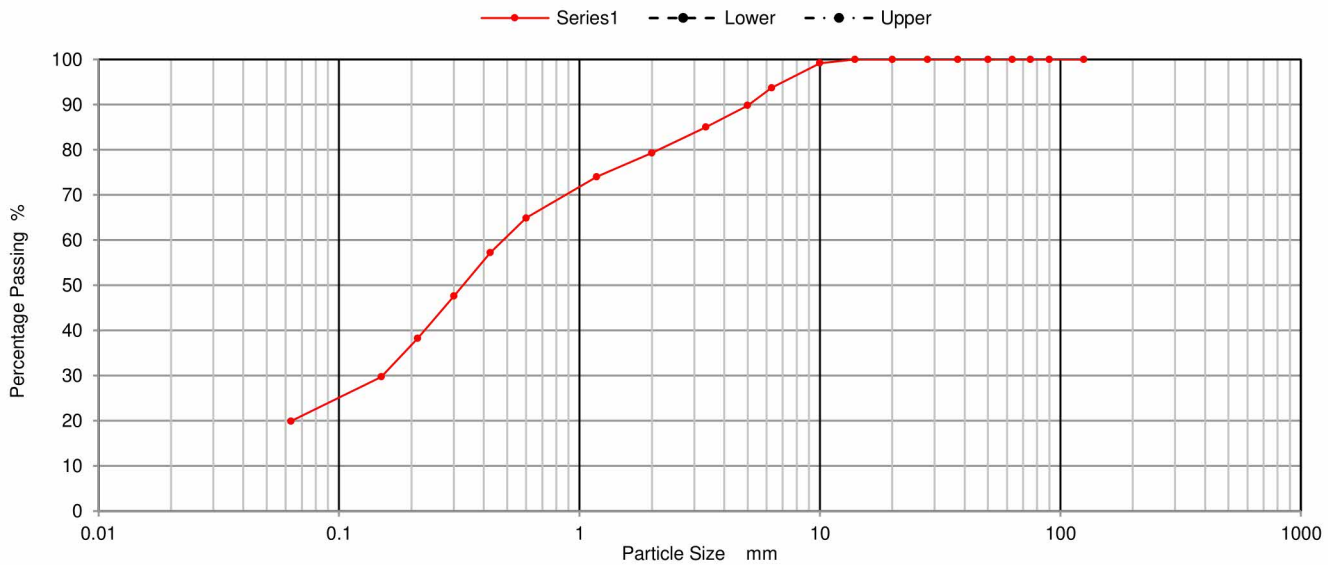
TEST REPORT
PARTICLE SIZE DISTRIBUTION BY WASHING & SIEVING METHOD

BS 1377 : Part 2 : 1990 : Clause 9.2



Client	Commercial Recycling (Southern) Limited	Lab Ref	23-93634 - 715354
Project Name	Canford Recycling Centre - Dry Screening Testing	Clients Ref	Sample 10
Source of Material	Ex-site	Date Sampled	05/05/2023
Sample Location	Stockpile	Sampled By	O.McNeil
Material Description	20mm Recycled Topsoil	Date Received	05/05/2023
Clients Specification	N/A	Date Tested	07/06/2023
Sampling Certificate	ACS Sampled, see attached		

Sample Type :
 Method of preparation :



ISO 565 Sieve Size mm	% Passing Actual	Specification Limits (% Passing)		Pass or Fail
		Lower	Upper	
125.00	100			
90.00	100			
75.00	100			
63.00	100			
50.00	100			
37.50	100			
28.00	100			
20.00	100			
14.00	100			
10.00	99			
6.30	94			
5.00	90			
3.35	85			
2.00	79			
1.18	74			
0.600	65			
0.425	57			
0.300	48			
0.212	38			
0.150	30			
0.063	20			

Grading Analysis		
D ₁₀₀	mm	14
D ₆₀	mm	0.5
D ₁₀	mm	< 0.063
Uniformity Coefficient		> 8

Remarks

This sample of material complies with the grading requirements of the clients indicated specification
No compliance with uniformity coefficient is provided.



Ref S05 Rev 0 Apr-22	Page 1 of 1	Report No. 23-93634 - 715354-1-S05	Date Reported 28/06/2023	Checked JZ	Approved 	ACS Testing Limited Unit 14, Blackhill Road West Holton Heath Trading Park Poole Dorset BH16 6LE 01202 622858	<p align="center">UKAS TESTING</p> <p align="center">0999</p>
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ACS TESTING LIMITED SUMMARY OF ANALYSIS for Job No.23-93634



Client : Commercial Recycling (Southern) Limited
Site : Canford Recycling Centre - Dry Screening Testing
Certificate Address Commercial Recycling (Southern) Limited
 Canford Recycling Centre
 Arena Way
 Off Magna Road

Contact Steve Kibbey.
Contact Telephone No. :
Contact e-mail steve.kibbey@commercialrecycling.co.uk

Sample No.	Material Source	Clients Reference	Sample Location	Date Sampled	Sampled By	Date Received	Material Description	Clients Specification	Test Ref	Test Name
715354	Ex-site	Sample 10	Stockpile	05/05/2023	O.McNeil	05/05/2023	20mm Recycled Topsoil	N/A	N17	Topsoil Contamination Suite

Certificate of Analysis

Certificate Number : 23-01096-Issue 1-Page: 1

Report Fao: ACS Testing Ltd
Site Address^: Canford Recycling Centre - Dry Screening Testing
Client Order No: 23-93634
Date of Sampling^: 05/05/2023
Date Received: 11/05/2023
Date of Analysis: 11/05/2023 - 22/05/2023
Report Date: 22/05/2023

Please find your certificates of test attached for your samples received in the laboratory on 11/05/2023 under our laboratory reference 23-01096.

Remarks:

None

Results reviewed by:



Craig Williams Senior Analyst

Test Certificates approved by:



David Redfern Technical Supervisor

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The results included within the report are representative of the samples submitted for analysis.
Excel copies of reports are valid only when accompanied by this PDF certificate.
Client's Sample Description / ACS Material Description are noted for reference only.*

ACSE Sample Number 72805
 Sample ID 715354 - 23-93634
 Clients Sample Ref.^ Sample 10
 Location / Sample Depth (m)^ Stockpile
 Date Sampled^ 05/05/2023
 Time Sampled^
 Sample deviating codes af
 Client's Sample Description^
 ACS Testing Material Description^ 20mm Recycled Topsoil
 ACSE Material Description (Principal Matrix - As Received) LOAM

Determination	HWOL Acroynm	Units	Method	Prepared As	Result	AS
Carbon						
FOC		%	MT/ACSE/102	AR	0.0174	
Soil Organic Matter		%	MT/ACSE/102	AR	2.99	
Cyanide						
Total Cyanide		mg/kg	IHP	AR	< 2.00	
Metals (Soil)						
Arsenic		mg/kg	MT/ACSE/201	AD	5.03	*#a
Cadmium		mg/kg	MT/ACSE/201	AD	< 1.00	*#a
Chromium		mg/kg	MT/ACSE/201	AD	30.5	*#a
Copper		mg/kg	MT/ACSE/201	AD	81.1	*#a
Mercury		mg/kg	MT/ACSE/202	AD	0.202	*#a
Nickel		mg/kg	MT/ACSE/201	AD	111	*#a
Lead		mg/kg	MT/ACSE/201	AD	155	*#a
Selenium		mg/kg	MT/ACSE/201	AD	< 6.00	*#a
Zinc		mg/kg	MT/ACSE/201	AD	265	*#a
Chromium III		mg/kg	NAM/ACSE/X11	AD	30.5	
Chromium Hexavalent		mg/kg	NAM/ACSE/X11	AD	< 0.20	
pH and Conductivity						
pH (@ 20°C)		units	MT/ACSE/301	AD	7.3	*af
Poly Aromatic Hydrocarbons						
Naphthalene		mg/kg	MT/ACSE/108	AR	< 0.10	*#a
Acenaphthylene		mg/kg	MT/ACSE/108	AR	< 0.10	*#a
Acenaphthene		mg/kg	MT/ACSE/108	AR	0.11	*#a
Fluorene		mg/kg	MT/ACSE/108	AR	< 0.10	*#a
Phenanthrene		mg/kg	MT/ACSE/108	AR	0.43	*#a
Anthracene		mg/kg	MT/ACSE/108	AR	0.18	*#a
Fluoranthene		mg/kg	MT/ACSE/108	AR	1.15	*#a
Pyrene		mg/kg	MT/ACSE/108	AR	1.13	*#a
Benzo (a) anthracene		mg/kg	MT/ACSE/108	AR	0.75	*#a
Chrysene		mg/kg	MT/ACSE/108	AR	0.71	*#a
Benzo (b) fluoranthene		mg/kg	MT/ACSE/108	AR	1.02	*#a
Benzo (k) fluoranthene		mg/kg	MT/ACSE/108	AR	0.34	*#a
Benzo (a) pyrene		mg/kg	MT/ACSE/108	AR	0.78	*#a
Indeno (1 2 3-CD) pyrene		mg/kg	MT/ACSE/108	AR	0.39	*#a
Dibenzo(a h)anthracene		mg/kg	MT/ACSE/108	AR	0.19	*#a
Benzo(g h i)perylene		mg/kg	MT/ACSE/108	AR	0.45	*#a
Total PAH		mg/kg	MT/ACSE/108	AR	7.63	*#a
Speciated BTEX						
MTBE	HS_1D_TOTAL	mg/kg	NAM/ACSE/X12	AR	< 0.0100	
Hexane	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100	
Heptane	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100	
Octane	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100	
Benzene	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100	
Toluene	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100	
Ethylbenzene	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100	

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ACSE Sample Number 72805
 Sample ID 715354 - 23-93634
 Clients Sample Ref.^ Sample 10
 Location / Sample Depth (m)^ Stockpile
 Date Sampled^ 05/05/2023
 Time Sampled^
 Sample deviating codes af
 Client's Sample Description^
 ACS Testing Material Description^ 20mm Recycled Topsoil
 ACSE Material Description (Principal Matrix - As Received) LOAM

Determination	HWOL Acroynm	Units	Method	Prepared As	Result	AS
m+p-xylene	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100	
o-xylene	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.0100	
Total BTEX	HS_1D_TOTAL	mg/kg	NAM/ACSE/X06	AR	< 0.05	
Speciated Petroleum Hydrocarbons						
C5-C6 Aliphatic	HS_1D_AL	mg/kg	NAM/ACSE/X07	AR	< 0.10	
>C6-C8 Aliphatic	HS_1D_AL	mg/kg	NAM/ACSE/X07	AR	< 0.10	
>C8-C10 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	< 10.0	
>C10-C12 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	< 10.0	
>C12-C16 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	< 10.0	
>C16-C21 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	< 10.0	
>C21-C35 Aliphatic	EH_2D_AL	mg/kg	NAM/ACSE/X07	AR	31.3	
C6-C7 Aromatic	HS_1D_AR	mg/kg	NAM/ACSE/X07	AR	< 0.10	
C7-C8 Aromatic	HS_1D_AR	mg/kg	NAM/ACSE/X07	AR	< 0.10	
>C8-C10 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	< 10.0	
>C10-C12 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	< 10.0	
>C12-C16 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	< 10.0	
>C16-C21 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	11.4	
>C21-C35 Aromatic	EH_2D_AR	mg/kg	NAM/ACSE/X07	AR	57.3	
Total Speciated TPH (C6-C35)	EH+HS_2D_TOTAL	mg/kg	NAM/ACSE/X07	AR	100	

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Technical Information for Analytical Results

Analysis

* - denotes analysis covered by our UKAS accreditation.

- denotes analysis covered by our MCERTS certification & UKAS accreditation.

Loss on Ignition (MT/ACSE/302) is carried out at our laboratory at Unit D11 Admiralty Park, Station Road, Holton Heath, Poole, Dorset BH16 6HX.

AD = Sample tested in air dried condition.

AR = Sample tested in as-received condition.

AS = Accreditation status.

D = Sample tested in dry condition.

L = Laboratory prepared leachate.

SC = Sub contracted.

^ = Clients supplied information.

All MCERTS certified test values reported on a dry weight basis.

The preparation of 10:1 Leachates (to BS EN 12457-2:2002) and 2:1 leachates (to BS EN 12457-1:2002) fall outside the scope of our UKAS accreditation.

Soils and leachates are prepared at our laboratory at Unit D11 Admiralty Park, Station Road, Holton Heath, Poole, Dorset BH16 6HX.

Method uncertainty available on request.

Where results are less than the limit of detection, the value of 0 is used in calculations.

Key to HWOL Acronyms

Acronym	Description
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 -	e.g. EH_2D_Total_#1 means humics mathematically subtracted
#2 -	e.g. EH_2D_Total_#2 means 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

Deviating Codes

Deviating Samples

The use of any of the following symbols indicates that the sample was deviating and it is possible therefore that the results provided may not be representative of the sample taken.

- a - The date and /or time of sampling has not been provided, therefore it is not known if the time lapse between sampling and analysis has exceeded the acceptable holding time(s)*.
- b - The test item was received in a container which has not been recommended*.
- c - On receipt, the temperature of the sample received was found to fall outside the recommendations of BS ISO 18512:2007, Soil Quality. Guidance on long and short term storage of soil samples*.
- d - The sample was received in a container that had not been filled as recommended*.
- e - The delay between sampling and sample receipt is greater than the recommended holding time for the analyte of interest in this matrix*.
- f - The delay between sampling and analysis is greater than the recommended holding time for the analyte of interest in this matrix*.

In accordance with the requirements of Technical Policy Statement TPS 63; UKAS Policy on Deviating Samples, all UKAS accredited testing laboratories are required to notify their clients that calibration or test results may be invalid where samples are found to be deviating. It is the opinion of ACSE that the term invalid should be interpreted as 'not fully representative of the sample taken at source'.

The following Additional Deviating Sample Codes may also be used.

- I/S - Insufficient sample mass/volume received for accurate quantification of this analyte.
- U/S - The sample received was deemed unsuitable for accurate determination of this analyte using the Test Methods available.

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