

Certificate of Analysis Landfill Waste Acceptance Criteria (WAC) (10:1)

Certificate Number : 25-00187-Issue 1-Page: 1

Report Fao: Darren Hazell
Site Address^: EARLCOTE -AIRPORT
Customer Order No: PO10770.
Date of Sampling^: 20/01/2025
Date Received: 28/01/2025
Date of Analysis: 28/01/2025 - 14/02/2025
Report Date: 17/02/2025

Please find your certificates of test attached for your samples received in the laboratory on 28/01/2025 under our laboratory reference 25-00187.

Remarks:

None

Results reviewed by:



Craig Williams Senior Analyst

Results approved by:



David Redfern Technical Supervisor

*Any opinions or interpretations indicated are outside the scope of our UKAS accreditation.
This certificate should not be reproduced, except in full, without the express permission of the laboratory.
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.*

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4150
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ACSE Sample Number 91867
 Sample ID EARLCOTE
 Clients Sample Ref.^
 Material Source^
 Location / Sample Depth (m)^
 Time Sampled^ 1420
 Date Sampled^ 20/01/2025
 Sample Deviating Codes ef
 Client's Sample Description^ SOIL
 ACS Testing Material Description^
 Principal Matrix (as received) SAND

LANDFILL WASTE ACCEPTANCE CRITERIA (WAC)

TEST VALUES

Mass of Undried Test Portion (Mw)	94.5	g	Volume of Leachant Used (L10)	0.896	litres
Mass of Dried Test Portion (Mp)	90.0	g			
Moisture Content Ratio (MC)	5.0	%	Volume of Eluate (VE10)	0.784	litres
Dry Matter Content (DR)	95.3	%			

SOLIDS ANALYSIS

Analyte	HWOL Acronym	Method	AS	Sample Condition for Analysis	Results
Total Organic Carbon (%)		SC	*	As received	3.70
Loss on ignition (%)		MT/ACSE/302	*	Air dried at 30°C	3.7
BTEX (mg/kg)	HS_ID_TOTAL	MT/ACSE/101	*ef	As received	< 0.60
PCBs (7 congeners) (mg/kg)		MT/ACSE/110	*	As received	< 1.00
Mineral oil (C10-C40) (mg/kg)	EH_CU_ID_TOTAL	MT/ACSE/105		As received	< 50
PAHs (mg/kg)		MT/ACSE/108	*#	As received	< 2.00
pH (units)		MT/ACSE/301	*ef	Air dried at 30°C	6.2

LANDFILL WASTE ACCEPTANCE CRITERIA SPECIFICATION

Inert Waste	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste
3 %	5 %	6 %
---	---	10 %
6	---	---
1	---	---
500	---	---
100	---	---
---	>6	---

ELUATE ANALYSIS

Analyte	Method	AS	Concentration in Eluate (mg/l)	Amount Leached (mg/kg)
Eluate Preparation	LP/ACSE/811			
Liquid : Solid Ratio (L/S)	LP/ACSE/101	*	L/S 10	L/S 10
pH (units)	MT/ACSE/301	*	7.8	
Temperature (°C)	MT/ACSE/301		20	
Conductivity (mS/m)	MT/ACSE/303	*	3.14	
Arsenic	MT/ACSE/208	*	0.00111	0.011
Barium	MT/ACSE/208	*	0.00517	0.052
Cadmium	MT/ACSE/208	*	< 0.00025	< 0.003
Chromium (total)	MT/ACSE/208	*	0.01995	0.200
Copper	MT/ACSE/208	*	0.01269	0.127
Mercury	MT/ACSE/208	*	< 0.000200	< 0.00250
Molybdenum	MT/ACSE/208	*	< 0.00025	< 0.003
Nickel	MT/ACSE/208	*	0.00875	0.0875
Lead	MT/ACSE/208	*	0.00216	0.022
Antimony	MT/ACSE/208	*	0.00029	0.003
Selenium	MT/ACSE/208	*	< 0.00025	< 0.003
Zinc	MT/ACSE/208	*	0.01860	0.186
Chloride	MT/ACSE/204	*	0.61	6.060
Fluoride	MT/ACSE/204	*	0.05	0.450
Sulphate	MT/ACSE/204	*	0.64	6.35
Total dissolved solids	MT/ACSE/304	*	30	300
Phenol index	MT/ACSE/109	*	< 0.002	< 0.02
Dissolved organic carbon	MT/ACSE/103		11.1	110.5

LANDFILL WASTE ACCEPTANCE CRITERIA SPECIFICATION

BS EN 12457-2:2002 LIMIT VALUES (mg/kg) at L/S 10		
Inert Waste	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste
0.5	2	25
20	100	300
0.04	1	5
0.5	10	70
2	50	100
0.01	0.2	2
0.5	10	30
0.4	10	40
0.5	10	50
0.06	0.7	5
0.1	0.5	7
4	50	200
800	15000	25000
10	150	500
1000	20000	50000
4000	60000	100000
1	---	---
500	800	1000

Comments: (comments are beyond the scope of UKAS accreditation)

Key (at clients request): a Simple Acceptance Rule has been applied in accordance with ILAC-G8: 09/2019 where measurement uncertainty has been ignored.

☐ The measured value exceeds the landfill waste acceptance criteria limit for inert waste.

The landfill waste acceptance criteria limits are provided for guidance only.

Technical Information for Analytical Results

Analysis

* - denotes analysis covered by our UKAS accreditation.

- denoted 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. This may affect the validity of test results.

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

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.
- S/C – The sample received was subcontracted for analysis.

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