ACS TESTING LIMITED SUMMARY OF ANALYSIS for Job No.22-86642

Client : **Southern Structures**

Site : **Mount Hermon Care Home**

Certificate Address
Southern Structures
The Dale
Pricketts Hill
Shedfield
Southampton

Contact Tyler Barr
Contact Telephone No. :
Contact e-mail tyler@southernstructures.co.uk

Sample No.	Material Source	Clients Reference	Sample Location	Date Sampled	Sampled By	Date Received	Material Description	Clients Specification	Test Ref	Test Name
673438	Ex-Site	Sample-1	Soakaway	13/09/2022	B Clarke	13/09/2022	Soil With Clay. Rock and Fines	Waste Classification Suite	S202	Waste Classification Suite

This summary relates to analysis sub-contracted to ACS Envirnmental Testing LTD (see attached certificates)

Issued by ACS Testing Limited30/09/2022

Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

a) understand the origin of the waste
b) select the correct List of Waste code(s)
c) confirm that the list of determinands, results and sampling plan are fit for purpose
d) select and justify the chosen metal species (Appendix B)
e) correctly apply moisture correction and other available corrections
f) add the meta data for their user-defined substances (Appendix A)
g) check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in pale yellow.

UGFWE-9KAPR-JYSNM

Job name

22-01578

Description/Comments

Project

22-86642

Site

Mount Hermon Care Home

Classified by

Name:
David Rowlands
Date:
30 Sep 2022 14:14 GMT
Telephone:
01202 622858

Company:
ACS Testing Limited
Unit 14 Blackhill Road West
Holton Heath Trading Park
Poole
BH16 6LE

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification: **CERTIFIED**

Course	Date
Hazardous Waste Classification	04 Feb 2021

Next 3 year Refresher due by Feb 2024

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	673438 - 22-86642-Soakaway		Non Hazardous		2

Related documents

#	Name	Description
1	22-01578.HWOL	ACS Environmental .hwol file used to populate the Job
2	Example waste stream template for contaminated soils	waste stream template used to create this Job

Report

Created by: David Rowlands

Created date: 30 Sep 2022 14:14 GMT

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Classification of sample: 673438 - 22-86642-Soakaway

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
673438 - 22-86642-Soakaway

Moisture content:
1.61%
(dry weight correction)

LoW Code:

Chapter:
17: Construction and Demolition Wastes (including excavated soil from contaminated sites)

Entry:
17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 1.61% Dry Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		3.58	mg/kg	1.197	4.218	mg/kg	0.000422 %	✓	
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17.8	mg/kg	1.32	23.129	mg/kg	0.00231 %	✓	
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.29	mg/kg	2.775	3.523	mg/kg	0.000352 %	✓	
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.978	mg/kg	3.22	3.099	mg/kg	0.00031 %	✓	
5	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<1	mg/kg	1.142	<1.142	mg/kg	<0.000114 %		<LOD
6	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		52.7	mg/kg	1.462	75.804	mg/kg	0.00758 %	✓	
7	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }	024-017-00-8				<0.2	mg/kg	2.27	<0.454	mg/kg	<0.0000454 %		<LOD
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		38.6	mg/kg	1.126	42.771	mg/kg	0.00428 %	✓	
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	164	mg/kg	1.56	251.756	mg/kg	0.0161 %	✓	
10	manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		393	mg/kg	2.749	1063.07	mg/kg	0.106 %	✓	
11	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.01	mg/kg	1.353	<0.0135	mg/kg	<0.00000135 %		<LOD
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.517	mg/kg	1.5	0.763	mg/kg	0.0000763 %	✓	
13	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		20.6	mg/kg	2.976	60.34	mg/kg	0.00603 %	✓	
14	selenium { nickel selenate }	028-031-00-5	239-125-2	15060-62-5		<6	mg/kg	2.554	<15.323	mg/kg	<0.00153 %		<LOD
15	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		183	mg/kg	2.774	499.625	mg/kg	0.05 %	✓	
16	TPH (C6 to C40) petroleum group			TPH		<50	mg/kg		<50	mg/kg	<0.005 %		<LOD
17	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
18	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
19	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
21	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
22	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
23	pH			PH		7.7	pH		7.7	pH	7.7 pH		
24	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
25	acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26	acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
27	fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
28	phenanthrene		201-581-5	85-01-8		0.66	mg/kg		0.65	mg/kg	0.000065 %	✓	
29	anthracene		204-371-1	120-12-7		0.32	mg/kg		0.315	mg/kg	0.0000315 %	✓	
30	fluoranthene		205-912-4	206-44-0		2.2	mg/kg		2.165	mg/kg	0.000217 %	✓	
31	pyrene		204-927-3	129-00-0		2.2	mg/kg		2.165	mg/kg	0.000217 %	✓	
32	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		1.29	mg/kg		1.27	mg/kg	0.000127 %	✓	
33	chrysene	601-048-00-0	205-923-4	218-01-9		1.53	mg/kg		1.506	mg/kg	0.000151 %	✓	
34	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		1.61	mg/kg		1.584	mg/kg	0.000158 %	✓	
35	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.77	mg/kg		0.758	mg/kg	0.0000758 %	✓	
36	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		1.24	mg/kg		1.22	mg/kg	0.000122 %	✓	
37	indeno[123-cd]pyrene		205-893-2	193-39-5		0.59	mg/kg		0.581	mg/kg	0.0000581 %	✓	
38	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.21	mg/kg		0.207	mg/kg	0.0000207 %	✓	
39	benzo[ghi]perylene		205-883-8	191-24-2		0.62	mg/kg		0.61	mg/kg	0.000061 %	✓	
40	phenol	604-001-00-2	203-632-7	108-95-2		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
41	polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<			<		<		ND
42	n-hexane	601-037-00-0	203-777-6	110-54-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
43	heptane; n-heptane; [1] 2,4-dimethylpentane; [2] 2,2,3-trimethylbutane; [3] 3,3-dimethylpentane; [4] 2,3-dimethylpentane; [5] 3-methylhexane; [6] 2,2-dimethylpentane; [7] 2-methylhexane; [8] 3-ethylpentane; [9] isoheptane; [10]	601-008-00-2	205-563-8 [1] 203-548-0 [2] 207-346-3 [3] 209-230-8 [4] 209-280-0 [5] 209-643-3 [6] 209-680-5 [7] 209-730-6 [8]	142-82-5 [1] 108-08-7 [2] 464-06-2 [3] 562-49-2 [4] 565-59-3 [5] 589-34-4 [6] 590-35-2 [7] 591-76-4 [8]		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
			210-529-0 [9] 250-610-8 [10]	617-78-7 [9] 31394-54-4 [10]							
44	octane; n-octane; [1] 2,2,4-trimethylpentane; [2] 2,3,3-trimethylpentane; [3] 3,3-dimethylhexane; [4] 2,2,3-trimethylpentane; [5] 2,3,4-trimethylpentane; [6] 3,4-dimethylhexane; [7] 2,3-dimethylhexane; [8] 2,4-dimethylhexane; [9] 4-methylheptane; [10] 3-methylheptane; [11] 2,2-dimethylhexane; [12] 2,5-dimethylhexane; [13] 2-methylheptane; [14] 2,2,3,3-tetramethylbutane; [15] 3-ethyl-2-methylpentane; [16] 3-ethylhexane; [17] 3-ethyl-3-methylpentane; [18] isooctane; [19]	601-009-00-8	203-892-1 [1] 208-759-1 [2] 209-207-2 [3] 209-243-9 [4] 209-266-4 [5] 209-292-6 [6] 209-504-7 [7] 209-547-1 [8] 209-649-6 [9] 209-650-1 [10] 209-660-6 [11] 209-689-4 [12] 209-745-8 [13] 209-747-9 [14] 209-855-6 [15] 210-187-2 [16] 210-621-0 [17] 213-923-0 [18] 247-861-0 [19]	111-65-9 [1] 540-84-1 [2] 560-21-4 [3] 563-16-6 [4] 564-02-3 [5] 565-75-3 [6] 583-48-2 [7] 584-94-1 [8] 589-43-5 [9] 589-53-7 [10] 589-81-1 [11] 590-73-8 [12] 592-13-2 [13] 592-27-8 [14] 594-82-1 [15] 609-26-7 [16] 619-99-8 [17] 1067-08-9 [18] 26635-64-3 [19]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
								Total:	0.202 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Appendix A: Classifier defined and non GB MCL determinands

- **chromium(III) oxide (worst case)** (EC Number: 215-160-9, CAS Number: 1308-38-9)

Description/Comments: Data from C&L Inventory Database
Data source: https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H332 , Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Resp. Sens. 1; H334 , Skin Sens. 1; H317 , Repr. 1B; H360FD , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **TPH (C6 to C40) petroleum group** (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

- **ethylbenzene** (EC Number: 202-849-4, CAS Number: 100-41-4)

GB MCL index number: 601-023-00-4
Description/Comments:
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

- **salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex**

GB MCL index number: 006-007-00-5
Description/Comments: Conversion factor based on a worst case compound: sodium cyanide
Additional Hazard Statement(s): EUH032 >= 0.2 %
Reason for additional Hazards Statement(s):
20 Nov 2021 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

- **pH** (CAS Number: PH)

Description/Comments: Appendix C4
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

- **acenaphthylene** (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H330 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

- **acenaphthene** (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Aquatic Chronic 2; H411

- **fluorene** (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **phenanthrene** (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Skin Irrit. 2; H315

- **anthracene** (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **fluoranthene** (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **pyrene** (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **indeno[123-cd]pyrene** (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Carc. 2; H351

- **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 23 Jul 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **polychlorobiphenyls; PCB** (EC Number: 215-648-1, CAS Number: 1336-36-3)

GB MCL index number: 602-039-00-4
Description/Comments: Worst Case: IARC considers PCB Group 1; Carcinogenic to humans; POP specific threshold from ATP1 (Regulation 756/2010/EU) to POPs Regulation (Regulation 850/2004/EC). Where applicable, the calculation method laid down in European standards EN 12766-1 and EN 12766-2 shall be applied.
Additional Hazard Statement(s): Carc. 1A; H350
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 1A; H350 hazard statement sourced from: IARC Group 1 (23, Sup 7, 100C) 2012

Appendix B: Rationale for selection of metal species

antimony {antimony trioxide}

Worst case CLP species based on hazard statements/molecular weight and low solubility. Industrial sources include: flame retardants in electrical apparatus, textiles and coatings

arsenic {arsenic trioxide}

Reasonable case CLP species based on hazard statements/molecular weight and most common (stable) oxide of arsenic. Industrial sources include: smelting; main precursor to other arsenic compounds

beryllium {beryllium oxide}

Reasonable case CLP species based on hazard statements/molecular weight. Industrial sources include: most common (non alloy) form, used in ceramics

boron {diboron trioxide; boric oxide}

Reasonable case CLP species based on hazard statements/ molecular weight, physical form and low solubility. Industrial sources include: fluxing agent for glass/enamels; additive for fibre optics, borosilicate glass

cadmium {cadmium oxide}

Reasonable case CLP species based on hazard statements/molecular weight, very low solubility in water. Industrial sources include: electroplating baths, electrodes for storage batteries, catalysts, ceramic glazes, phosphors, pigments and nematocides. Worst case compounds in CLP: cadmium sulphate, chloride, fluoride & iodide not expected as either very soluble and/or compound's industrial usage not related to site history

chromium in chromium(III) compounds {chromium(III) oxide (worst case)}

Reasonable case species based on hazard statements/molecular weight. Industrial sources include: tanning, pigment in paint, inks and glass

chromium in chromium(VI) compounds {chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex}

Worst case species based on hazard statements/molecular weight

copper {dicopper oxide; copper (I) oxide}

Reasonable case CLP species based on hazard statements/molecular weight and insolubility in water. Industrial sources include: oxidised copper metal, brake pads, pigments, antifouling paints, fungicide. Worse case copper sulphate is very soluble and likely to have been leached away if ever present and/or not enough soluble sulphate detected.

lead {lead chromate}

Worst case CLP species based on hazard statements/molecular weight

manganese {manganese sulphate}

Worst case CLP species based on hazard statements/molecular weight

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight

molybdenum {molybdenum(VI) oxide}

Worst case CLP species based on hazard statements/molecular weight

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight

selenium {nickel selenate}

Worst case CLP species based on hazard statements/molecular weight

zinc {zinc chromate}

Worst case CLP species based on hazard statements/molecular weight

cyanides {salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex}

Harmonised group entry used as most reasonable case as complex cyanides and those specified elsewhere in the annex are not likely to be present in this soil: [Note conversion factor based on a worst case compound: sodium cyanide]

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.2.GB - Oct 2021
HazWasteOnline Classification Engine Version: 2022.263.5340.9974 (20 Sep 2022)
HazWasteOnline Database: 2022.263.5340.9974 (20 Sep 2022)

This classification utilises the following guidance and legislation:
WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021
CLP Regulation - Regulation 1272/2008/EC of 16 December 2008
1st ATP - Regulation 790/2009/EC of 10 August 2009
2nd ATP - Regulation 286/2011/EC of 10 March 2011
3rd ATP - Regulation 618/2012/EU of 10 July 2012
4th ATP - Regulation 487/2013/EU of 8 May 2013
Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
5th ATP - Regulation 944/2013/EU of 2 October 2013
6th ATP - Regulation 605/2014/EU of 5 June 2014
WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014
7th ATP - Regulation 2015/1221/EU of 24 July 2015
8th ATP - Regulation (EU) 2016/918 of 19 May 2016
9th ATP - Regulation (EU) 2016/1179 of 19 July 2016
10th ATP - Regulation (EU) 2017/776 of 4 May 2017
HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017
13th ATP - Regulation (EU) 2018/1480 of 4 October 2018
14th ATP - Regulation (EU) 2020/217 of 4 October 2019
15th ATP - Regulation (EU) 2020/1182 of 19 May 2020
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020
The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020
GB MCL List - version 1.1 of 09 June 2021

ACS Testing Ltd
Unit 14
Blackhill Road West
Holton Heath Trading Park
Poole
Dorset
BH16 6LE

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

Certificate Number : 22-01578-Issue 1-Page: 1

Report Fao:	ACS Testing Ltd
Site Address^:	Mount Hermon Care Home
Customer Order No:	22-86642
Date of Sampling^:	13/09/2022
Date Received:	16/09/2022
Date of Analysis:	16/09/2022 - 29/09/2022
Report Date:	30/09/2022

Please find your certificates of test attached for your samples received in the laboratory on 16/09/2022 under our laboratory reference 22-01578.

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.
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Client's Sample Description / ACS Material Description are noted for reference only.

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ACS Environmental Testing Limited
Registered in England and
Wales No. 6000065

4150

Certificate No. 22-01578-Issue 1-Page: 2

Site Address^ Mount Hermon Care Home

ACSE Sample Number	65838
Sample ID	673438 - 22-86642
Clients Sample Ref.^	Sample-1
Material Source^	Ex-Site
Location / Sample Depth (m)^	Soakaway
Time Sampled^	0910
Date Sampled^	13/09/2022
Sample Deviating Codes	f
Client's Sample Description^	
ACS Testing Material Description^	Soil With Clay. Rock and Fines
Principal Matrix (as received)	LOAM

LANDFILL WASTE ACCEPTANCE CRITERIA (WAC)

TEST VALUES

Mass of Undried Test Portion (Mw)	90.4	g	Volume of Leachant Used (L10)	0.900	litres
Mass of Dried Test Portion (Mp)	90.0	g			
Moisture Content Ratio (MC)	0.4	%	Volume of Eluate (VE10)	0.862	litres
Dry Matter Content (DR)	99.6	%			

SOLIDS ANALYSIS

Analyte	HWOL Acronym	Method	AS	Sample Condition for Analysis	**Results**	LANDFILL WASTE ACCEPTANCE CRITERIA SPECIFICATION: Inert Waste	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste
Total Organic Carbon (%)		MT/ACSE/102	*	As received	**2.13**	3 %	5 %	6 %
Loss on ignition (%)		MT/ACSE/302	*	Air dried at 30°C	**3.3**	---	---	10 %
BTEX (mg/kg)	HS_1D_TOTAL	MT/ACSE/101	*f	As received	**< 0.60**	6	---	---
PCBs (7 congeners) (mg/kg)		MT/ACSE/110	*	As received	**< 1.00**	1	---	---
Mineral oil (C10-C40) (mg/kg)	EH_CU_1D_TOTAL	MT/ACSE/105		As received	**< 50**	500	---	---
PAHs (mg/kg)		MT/ACSE/108	*	As received	**13.2**	100	---	---
pH (units)		MT/ACSE/301	*f	Air dried at 30°C	**7.7**	---	>6	---

ELUATE ANALYSIS

Analyte	Method	AS	Concentration in Eluate (mg/l)	Amount Leached (mg/kg)	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
Eluate Preparation	LP/ACSE/811						
Liquid : Solid Ratio (L/S)	LP/ACSE/101	*	**L/S 10**	**L/S 10**			
pH (units)	MT/ACSE/301	*	7.6				
Temperature (°C)	MT/ACSE/301		20				
Conductivity (mS/m)	MT/ACSE/303	*	11.74				
Arsenic	MT/ACSE/205	*	< 0.007	**< 0.070**	0.5	2	25
Barium	MT/ACSE/205	*	0.0833	**0.833**	20	100	300
Cadmium	MT/ACSE/205	*	< 0.0008	**< 0.008**	0.04	1	5
Chromium (total)	MT/ACSE/205	*	< 0.001	**< 0.010**	0.5	10	70
Copper	MT/ACSE/205	*	< 0.008	**< 0.080**	2	50	100
Mercury	MT/ACSE/202	*	< 0.0001	**< 0.0010**	0.01	0.2	2
Molybdenum	MT/ACSE/205	*	0.0071	**0.072**	0.5	10	30
Nickel	MT/ACSE/205	*	0.0009	**0.0087**	0.4	10	40
Lead	MT/ACSE/205	*	< 0.004	**< 0.040**	0.5	10	50
Antimony	MT/ACSE/205	*	0.006	**0.056**	0.06	0.7	5
Selenium	MT/ACSE/205	*	< 0.006	**< 0.060**	0.1	0.5	7
Zinc	MT/ACSE/205	*	0.008	**0.080**	4	50	200
Chloride	MT/ACSE/204	*	1.46	**14.59**	800	15000	25000
Fluoride	MT/ACSE/204	*	0.39	**3.850**	10	150	500
Sulphate	MT/ACSE/204	*	2.44	**24.36**	1000	20000	50000
Total dissolved solids	MT/ACSE/304	*	140	**1400**	4000	60000	100000
Phenol index	MT/ACSE/109		< 0.001	**< 0.50**	1	---	---
Dissolved organic carbon	MT/ACSE/103	*	9.04	**90.40**	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.
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 outsice the scope of our UKAS accreditation.
Measurement uncertainty available on request.
Where results are less than the limit of detection, the value of 0 is used in calculations.

For Phenol index, m- and p- cresol are reported as mixed isomers, calibrated with reference to a p-cresol reference solution.
The individual concentrations of m- and p- cresol cannot be quantified using this method, however, the result reported for the mixed isomers will be an over estimation of the true

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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ACS Testing Ltd
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BH16 6LE

ANALYTICAL CONSTRUCTION SERVICES
A PHENNA GROUP COMPANY

Certificate of Analysis

Certificate Number : 22-01578-Issue 1-Page: 1

Report Fao:	ACS Testing Ltd
Site Address^:	Mount Hermon Care Home
Client Order No:	22-86642
Date of Sampling^:	13/09/2022
Date Received:	16/09/2022
Date of Analysis:	16/09/2022 - 29/09/2022
Report Date:	30/09/2022

Please find your certificates of test attached for your samples received in the laboratory on 16/09/2022 under our laboratory reference 22-01578.

Remarks:

None

Results reviewed by:

Craig Williams *Senior Analyst*

Test Certificates approved by:

David Redfern *Technical Supervisor*

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Client's Sample Description / ACS Material Description are noted for reference only.

ACSE Sample Number	65838
Sample ID	673438 - 22-86642
Clients Sample Ref.^	Sample-1
Location / Sample Depth (m)^	Soakaway
Date Sampled^	13/09/2022
Time Sampled^	0910
Sample deviating codes	f
Client's Sample Description^	
ACS Testing Material Description^	Soil With Clay. Rock and Fines
ACSE Material Description (Principal Matrix - As Received)	LOAM

Determination	HWOL Acronym	Units	Method	Prepared As	Result	AS
Anions						
Water Soluble Sulphate		mg/l	MT/ACSE/204	AD	**24.7**	*
BTEX						
Benzene	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.10	*f
Ethylbenzene	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.10	*f
m+p-xylene	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.19	*f
o-xylene	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.10	*f
Toluene	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.10	*f
Total BTEX	HS_1D_TOTAL	mg/kg	MT/ACSE/101	AR	< 0.60	*f
Carbon						
TOC (Total Organic Carbon)		%	MT/ACSE/102	AR	**2.13**	*
Cyanide						
Total Cyanide		mg/kg	IHP	AR	< 1.00	
Hazwaste Soil Report						
Hazwaste Report		n/a	IHP	IHP	**Attached**	
Loss on Ignition						
Loss on Ignition (440 °C)		%	MT/ACSE/302	AD	**3.3**	*
Metals (Soil)						
Arsenic		mg/kg	MT/ACSE/201	AD	**17.8**	*
Beryllium		mg/kg	MT/ACSE/201	AD	**1.29**	
Cadmium		mg/kg	MT/ACSE/201	AD	< 1.00	*
Chromium		mg/kg	MT/ACSE/201	AD	**52.7**	*
Copper		mg/kg	MT/ACSE/201	AD	**38.6**	*
Mercury		mg/kg	MT/ACSE/202	AD	< 0.010	*
Manganese		mg/kg	MT/ACSE/201	AD	**393**	
Molybdenum		mg/kg	MT/ACSE/201	AD	**0.517**	
Nickel		mg/kg	MT/ACSE/201	AD	**20.6**	*
Lead		mg/kg	MT/ACSE/201	AD	**164**	*
Antimony		mg/kg	MT/ACSE/201	AD	**3.58**	
Selenium		mg/kg	MT/ACSE/201	AD	< 6.00	*
Zinc		mg/kg	MT/ACSE/201	AD	**183**	*
Chromium Hexavalent		mg/kg	NAM/ACSE/X11	AD	< 0.20	
Boron (Hot Water Soluble)		mg/kg	NAM/ACSE/X08	AD	**0.978**	
pH and Conductivity						
pH (@ 20°C)		units	MT/ACSE/301	AD	**7.7**	*f
Phenols						
Phenol Index		mg/kg	IHP	AR	< 1.00	
Poly Aromatic Hydrocarbons						
Naphthalene		mg/kg	MT/ACSE/108	AR	< 0.10	*
Acenaphthylene		mg/kg	MT/ACSE/108	AR	< 0.10	*
Acenaphthene		mg/kg	MT/ACSE/108	AR	< 0.10	*
Fluorene		mg/kg	MT/ACSE/108	AR	< 0.10	*
Phenanthrene		mg/kg	MT/ACSE/108	AR	**0.66**	*
Anthracene		mg/kg	MT/ACSE/108	AR	**0.32**	*

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ACSE Sample Number	65838
Sample ID	673438 - 22-86642
Clients Sample Ref.^	Sample-1
Location / Sample Depth (m)^	Soakaway
Date Sampled^	13/09/2022
Time Sampled^	0910
Sample deviating codes	f
Client's Sample Description^	
ACS Testing Material Description^	Soil With Clay. Rock and Fines
ACSE Material Description (Principal Matrix - As Received)	LOAM

Determination	HWOL Acronym	Units	Method	Prepared As	Result	AS
Fluoranthene		mg/kg	MT/ACSE/108	AR	**2.20**	*
Pyrene		mg/kg	MT/ACSE/108	AR	**2.20**	*
Benzo (a) anthracene		mg/kg	MT/ACSE/108	AR	**1.29**	*
Chrysene		mg/kg	MT/ACSE/108	AR	**1.53**	*
Benzo (b) fluoranthene		mg/kg	MT/ACSE/108	AR	**1.61**	*
Benzo (k) fluoranthene		mg/kg	MT/ACSE/108	AR	**0.77**	*
Benzo (a) pyrene		mg/kg	MT/ACSE/108	AR	**1.24**	*
Indeno (1 2 3-CD) pyrene		mg/kg	MT/ACSE/108	AR	**0.59**	*
Dibenzo(a h)anthracene		mg/kg	MT/ACSE/108	AR	**0.21**	*
Benzo(g h i)perylene		mg/kg	MT/ACSE/108	AR	**0.62**	*
Total PAH		mg/kg	MT/ACSE/108	AR	**13.2**	*
Polychlorinated Biphenyls (PCBs)						
PCB (7 Congeners)		mg/kg	MT/ACSE/110	AR	< 1.00	*
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	
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	
Subcontracted Analysis						
Asbestos Fibre ID		SC	SC	SC	**Attached**	
Sulphates						
Acid Soluble Sulphate		%SO4	NAM/ACSE/X34	AD	< 0.01	
Total TPH (C10-C40) with cleanup						
Mineral Oil (C10-C40)	EH_CU_1D_TOTAL	mg/kg	MT/ACSE/105	AR	< 50	
Total TPH (C6-C40) with cleanup						
Mineral Oil (C6-C40)	EH_CU+HS_1D_TOTAL	mg/kg	MT/ACSE/105	AR	< 50	

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ACS ANALYTICAL CONSTRUCTION SERVICES
A PHENNA GROUP COMPANY

Technical Information for Analytical Results

Analysis

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# - denoted analysis covered by our MCERTS certification & UKAS accreditation.
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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.
Method uncertainty available on request.

Key to HWOL Acronyms

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HS	-	Headspace analysis
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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

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info@elab-uk.co.uk

UKAS TESTING
2683

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	22-43388
Issue:	1
Date of Issue:	28/09/2022
Contact:	Dave Redfern
Customer Details:	ACS Environmental testing Ltd Unit 14b Blackhill Road West Holton heath Trading park Poole DorsetBH16 6LE
Quotation No:	Q22-02670
Order No:	E / 22-01578 / 4939
Customer Reference:	22-01578
Date Received:	22/09/2022
Date Approved:	28/09/2022
Details:	22-01578
Approved by:	

Mike Varley, General Manager

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

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ELAB

Sample Summary

Report No.: 22-43388, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
294357	Sample-1 (673438) 65838	13/09/2022	22/09/2022		

Unit A2, Windmill Road, Ponswood Industrial Estate, St Leonards on Sea, East Sussex, TN38 9BY
Tel: +44 (0)1424 718618, Email: info@elab-uk.co.uk, Web: www.elab-uk.co.uk

Results Summary

Report No.: 22-43388, issue number 1

Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
294357		Sample-1 (673438) 65838	Brown sandy soil, stones, concrete, brick, clinker, glass, organics	No asbestos detected	n/t	n/t	n/t	n/t

ELAB

UKAS TESTING
2683

Method Summary

Report No.: 22-43388, issue number 1

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Asbestos identification	U	Air dried sample	28/09/2022	280	Microscopy

ELAB

UKAS TESTING
2683

Report Information

Report No.: 22-43388, 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