

Appendix C





ANALYTICAL TEST REPORT

Report Number 25-06306, issue number 1

Contract name: Woodlands 3500

Client reference: Not Supplied

Clients name: Ashton Bennett

Clients address: Ashton Bennett
131 Huddersfield Road
Holmfirth

West Yorkshire HD9 3TW

Samples received: 26/06/2025

Analysis started: 26/06/2025

Analysis completed: 07/07/2025

Report issued: 07/07/2025

Key

U	UKAS accredited test
M	MCERTS & UKAS accredited test
I/S	Insufficient sample to carry out test
U/S	Sample not suitable for testing
NAD	No Asbestos Detected

Approved by: Sam Rogerson
Receipt and Reporting Manager

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

Lab ref	Sample ID	Depth (m)	Sample description	Material removed	% Removed	% Moisture
55803	PLOT-1	-	Brown Clay sandy loam with Gravel and Vegetation.	-	-	12.3
55804	PLOT-2	-	Brown Clay sandy loam with Gravel and Vegetation.	-	-	5.0
55805	PLOT-3	-	Brown Clay sandy loam with Gravel and Vegetation.	-	-	12.5
55806	PLOT-4	-	Brown Clay sandy loam with Gravel and Vegetation.	-	-	11.7
55807	PLOT-5	-	Brown Clay sandy loam with Gravel and Vegetation.	-	-	5.7
55808	PLOT-6	-	Brown Clay sandy loam with Gravel and Vegetation.	-	-	6.3

DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.

For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.

Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

- Key
- a Sampling date not provided
 - b Sampling time not provided (waters only)
 - c Sample not received in appropriate containers
 - d Storage Temperature
 - e Headspace present in sample container
 - f Sample exceeded sampling to receipt
 - g Sample exceeded holding time(s)

Lab ref	Sample ID	Depth (m)	Deviating	Tests (Reason for deviation)
55803	PLOT-1	-	N	
55804	PLOT-2	-	N	
55805	PLOT-3	-	N	
55806	PLOT-4	-	N	
55807	PLOT-5	-	N	
55808	PLOT-6	-	N	

SOILS

Lab Number					55803	55804	55805	55806	55807
Client Reference					SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID					PLOT-1	PLOT-2	PLOT-3	PLOT-4	PLOT-5
Sampling Date					26/06/2025	26/06/2025	26/06/2025	26/06/2025	26/06/2025
Test	Method	Accred	LoD	Units					
Asbestos									
Asbestos Identification	SUBCO N	SU	0	-	NAD	NAD	NAD	NAD	NAD
Metals									
Water Soluble Sulphate	CE061	M	10	mg/l	63.1	99.0	149	145	125
Arsenic	CE264	U	1.8	mg/kg	20.5	21.8	22.0	28.7	33.2
Boron	CE264	N	2	mg/kg	7.2	6.9	7.9	14.1	11.8
Cadmium	CE264	M	1.6	mg/kg	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
Copper	CE264	M	1.6	mg/kg	29.4	33.8	33.2	50.9	52.5
Lead	CE264	U	2.3	mg/kg	62.7	69.0	72.8	97.5	104
Mercury	CE264	U	0.7	mg/kg	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Nickel	CE264	M	2.1	mg/kg	16.4	16.9	17.0	24.0	27.2
Selenium	CE264	U	3	mg/kg	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0
Zinc	CE264	M	4	mg/kg	58.7	62.8	56.8	97.3	108
Colourimetric									
Water Soluble Chromium VI	CE263	N	0.04	mg/kg	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Combustion									
Moisture Content	CE001	N	0.1	%	12.3	5.0	12.5	11.7	5.7
Polycyclic aromatic hydrocarbons									
Naphthalene	CE087	M	0.016	mg/kg	0.046	0.078	0.092	0.349	0.449
Acenaphthylene	CE087	M	0.015	mg/kg	0.032	0.103	0.123	0.203	0.106
Acenaphthene	CE087	M	0.013	mg/kg	0.031	0.060	0.044	0.161	0.590
Fluorene	CE087	U	0.013	mg/kg	0.032	0.097	0.051	0.223	0.417
Phenanthrene	CE087	M	0.014	mg/kg	0.446	1.26	0.777	2.44	3.98
Anthracene	CE087	U	0.017	mg/kg	0.112	0.267	0.232	0.771	0.968
Fluoranthene	CE087	M	0.017	mg/kg	0.852	2.22	2.45	4.89	6.02
Pyrene	CE087	M	0.016	mg/kg	0.746	1.88	2.09	4.10	5.03
Benzo(a)anthracene	CE087	U	0.012	mg/kg	0.471	1.08	1.37	2.47	2.86
Chrysene	CE087	M	0.028	mg/kg	0.437	1.07	1.19	2.36	2.67
Benzo(b)fluoranthene	CE087	M	0.02	mg/kg	0.609	1.39	1.63	2.81	3.17
Benzo(k)fluoranthene	CE087	M	0.025	mg/kg	0.239	0.570	0.709	1.19	1.49
Benzo(a)pyrene	CE087	U	0.019	mg/kg	0.483	1.18	1.42	2.42	2.88

SOILS

Lab Number					55803	55804	55805	55806	55807
Client Reference					SOIL	SOIL	SOIL	SOIL	SOIL
Sample ID					PLOT-1	PLOT-2	PLOT-3	PLOT-4	PLOT-5
Sampling Date					26/06/2025	26/06/2025	26/06/2025	26/06/2025	26/06/2025
Test	Method	Accred	LoD	Units					
Indeno(1,2,3-cd)pyrene	CE087	M	0.019	mg/kg	0.362	0.909	0.976	1.72	1.97
Dibenzo(a,h)anthracene	CE087	M	0.017	mg/kg	0.091	0.212	0.226	0.399	0.435
Benzo(g,h,i)perylene	CE087	M	0.019	mg/kg	0.327	0.755	0.845	1.41	1.71
Total PAH(16)	CE087	N	0.28	mg/kg	5.32	13.1	14.2	27.9	34.7
Total Petroleum Hydrocarbons									
>C5-C6 Aliphatic (HS_1D_AL)	CE267	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
>C6-C8 Aliphatic (HS_1D_AL)	CE267	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
>C8-C10 Aliphatic (HS_1D_AL)	CE267	N	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
>C10-C12 Aliphatic (EH_2D_AL)	CE250	N	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	CE250	N	0.5	mg/kg	< 0.5	0.9	0.6	0.7	0.7
>C16-C35 Aliphatic (EH_2D_AL)	CE250	N	3	mg/kg	< 3.0	7.3	5.0	6.4	10.5
>C35-C44 Aliphatic (EH_2D_AL)	CE250	N	0.5	mg/kg	< 0.5	1.3	0.8	1.4	1.5
>C5-C7 Aromatic (HS_1D_AR)	CE267	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
>C7-C8 Aromatic (HS_1D_AR)	CE267	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
>C8-C10 Aromatic (HS_1D_AR)	CE267	N	0.01	mg/kg	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
>C10-C12 Aromatic (EH_2D_AR)	CE250	N	0.6	mg/kg	2.1	3.6	4.1	3.9	3.9
>C12-C16 Aromatic (EH_2D_AR)	CE250	N	1	mg/kg	3.5	7.4	6.9	8.8	7.6
>C16-C21 Aromatic (EH_2D_AR)	CE250	N	2	mg/kg	2.4	16.9	15.4	21.0	18.2
>C21-C35 Aromatic (EH_2D_AR)	CE250	N	4.5	mg/kg	11.6	57.7	63.1	66.7	65.6
>C35-C44 Aromatic (EH_2D_AR)	CE250	N	2	mg/kg	5.1	15.8	16.7	17.4	17.8
Wet Chem									
pH	CE004	M	0.1	pH units	6.8	6.9	6.8	7.2	7.0

SOILS

Lab Number					55808
Client Reference					SOIL
Sample ID					PLOT-6
Sampling Date					26/06/2025
Test	Method	Accred	LoD	Units	
Asbestos					
Asbestos Identification	SUBCO N	SU	0	-	NAD
Metals					
Water Soluble Sulphate	CE061	M	10	mg/l	268
Arsenic	CE264	U	1.8	mg/kg	34.4
Boron	CE264	N	2	mg/kg	13.1
Cadmium	CE264	M	1.6	mg/kg	< 1.6
Copper	CE264	M	1.6	mg/kg	62.0
Lead	CE264	U	2.3	mg/kg	140
Mercury	CE264	U	0.7	mg/kg	< 0.7
Nickel	CE264	M	2.1	mg/kg	29.9
Selenium	CE264	U	3	mg/kg	< 3.0
Zinc	CE264	M	4	mg/kg	126
Colourimetric					
Water Soluble Chromium VI	CE263	N	0.04	mg/kg	< 0.040
Combustion					
Moisture Content	CE001	N	0.1	%	6.3
Polycyclic aromatic hydrocarbons					
Naphthalene	CE087	M	0.016	mg/kg	0.219
Acenaphthylene	CE087	M	0.015	mg/kg	0.689
Acenaphthene	CE087	M	0.013	mg/kg	0.184
Fluorene	CE087	U	0.013	mg/kg	0.225
Phenanthrene	CE087	M	0.014	mg/kg	8.03
Anthracene	CE087	U	0.017	mg/kg	1.93
Fluoranthene	CE087	M	0.017	mg/kg	22.0
Pyrene	CE087	M	0.016	mg/kg	18.1
Benzo(a)anthracene	CE087	U	0.012	mg/kg	10.1
Chrysene	CE087	M	0.028	mg/kg	8.87
Benzo(b)fluoranthene	CE087	M	0.02	mg/kg	9.75
Benzo(k)fluoranthene	CE087	M	0.025	mg/kg	4.30
Benzo(a)pyrene	CE087	U	0.019	mg/kg	7.89

SOILS

Lab Number					55808
Client Reference					SOIL
Sample ID					PLOT-6
Sampling Date					26/06/2025
Test	Method	Accred	LoD	Units	
Indeno(1,2,3-cd)pyrene	CE087	M	0.019	mg/kg	6.15
Dibenzo(a,h)anthracene	CE087	M	0.017	mg/kg	1.36
Benzo(g,h,i)perylene	CE087	M	0.019	mg/kg	4.71
Total PAH(16)	CE087	N	0.28	mg/kg	105
Total Petroleum Hydrocarbons					
>C5-C6 Aliphatic (HS_1D_AL)	CE267	N	0.1	mg/kg	< 0.10
>C6-C8 Aliphatic (HS_1D_AL)	CE267	N	0.1	mg/kg	< 0.10
>C8-C10 Aliphatic (HS_1D_AL)	CE267	N	0.1	mg/kg	< 0.10
>C10-C12 Aliphatic (EH_2D_AL)	CE250	N	1	mg/kg	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	CE250	N	0.5	mg/kg	1.1
>C16-C35 Aliphatic (EH_2D_AL)	CE250	N	3	mg/kg	16.2
>C35-C44 Aliphatic (EH_2D_AL)	CE250	N	0.5	mg/kg	2.8
>C5-C7 Aromatic (HS_1D_AR)	CE267	N	0.01	mg/kg	< 0.010
>C7-C8 Aromatic (HS_1D_AR)	CE267	N	0.01	mg/kg	< 0.010
>C8-C10 Aromatic (HS_1D_AR)	CE267	N	0.01	mg/kg	< 0.010
>C10-C12 Aromatic (EH_2D_AR)	CE250	N	0.6	mg/kg	4.7
>C12-C16 Aromatic (EH_2D_AR)	CE250	N	1	mg/kg	10.0
>C16-C21 Aromatic (EH_2D_AR)	CE250	N	2	mg/kg	23.8
>C21-C35 Aromatic (EH_2D_AR)	CE250	N	4.5	mg/kg	105
>C35-C44 Aromatic (EH_2D_AR)	CE250	N	2	mg/kg	27.5
Wet Chem					
pH	CE004	M	0.1	pH units	7.4

METHOD DETAILS

METHOD	TESTNAME	METHOD SUMMARY	ANALYSIS BASIS
CE267	VPH in Soil	HS-GCFID	As submitted sample
CE250	GCXGC in Soil	DCM Extraction and GCxGC-FID	As submitted sample
SUBCON	Asbestos Soil	HSG248	Air Dried Sample
CE061	W. Sol Metals	ICPOES	Air dried sample
CE264	Metals by ICP in Soil	ICPOES	Air dried sample
CE263	ChromiumVI by Discrete Analyser in Soil	Gallery	Air dried sample
CE087	PAH in Soil	DCM Extraction and GCMS	As submitted sample

REPORT INFORMATION

Report No.:25-06306, issue number 1

Key

U	ISO17025 Accredited Result
M	ISO17025 and MCERTS Accredited Result
N	Do not currently hold accreditation
^	MCERTS accreditation not applicable for sample matrix. Result is unaccredited.
*	ISO17025 accreditation not applicable for sample matrix. Result is unaccredited.
S	Subcontracted
I/S	Insufficient Sample
U/S	Unsuitable sample
N/T	Not tested
<	Means "less than"
>	Means "greater than"

LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.

This report shall not be reproduced except in full, without prior written approval.

Opinions and interpretations expressed herein are outside the UKAS accreditation scope.

All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing.

The results relate only to the sample received.

Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Moisture Content Calculated on a Wet Weight basis

Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.

Sampling was undertaken by Chemtech Environmental Limited and is outside the UKAS accreditation scope.

Methods, procedures and performance data are available on request.

Results reported herein relate only to the material supplied to the laboratory.

BTEX compounds are identified by retention time only and may include interference from co-eluting compounds.

For soils and solids, all results are reported on a dry basis. Samples dried at no more than 30°C in a drying

For soils and solids, analytical results are inclusive of stones, where applicable.

Sample Retention and Disposal

All soil samples will be retained for a period of 4 weeks from the point of receipt

All water samples will be retained for a period of 2 weeks from the point of Reporting

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



ANALYTICAL TEST REPORT

Contract no: 96789
Contract name: Homfirth
Client reference: 3454
Clients name: Ashton Bennett
Clients address: 131 Huddersfield Road
Holmfirth
West Yorkshire
HD9 3TW

Samples received: 10 June 2021

Analysis started: 10 June 2021

Analysis completed: 17 June 2021

Report issued: 17 June 2021

Notes: Opinions and interpretations expressed herein are outside the UKAS accreditation scope.
Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.
All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing.
Methods, procedures and performance data are available on request.
Results reported herein relate only to the material supplied to the laboratory.
This report shall not be reproduced except in full, without prior written approval.
Samples will be disposed of 6 weeks from initial receipt unless otherwise instructed.

Key: U UKAS accredited test
M MCERTS & UKAS accredited test
\$ Test carried out by an approved subcontractor
I/S Insufficient sample to carry out test
N/S Sample not suitable for testing
NAD No Asbestos Detected

Approved by:

Rachael Burton
Customer Support Squad Leader

Chemtech Environmental Limited

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

All results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.

Analytical results are inclusive of stones.

Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
96789-1	S	-	Sandy Clay with Gravel	-	-	20.1
96789-2	S14	-	Sandy Clay with Gravel	-	-	24.2
96789-3	S15	-	Sandy Clay with Gravel	-	-	22.1
96789-4	S16	-	Sandy Clay with Gravel	-	-	21.9
96789-5	S17	-	Sandy Clay with Gravel	-	-	25.1
96789-6	S18	-	Sandy Clay with Gravel	-	-	20.5
96789-7	S19	-	Sandy Clay with Gravel	-	-	22.8
96789-8	S20	-	Sandy Clay with Gravel	-	-	22.5
96789-9	S21	-	Sandy Clay with Gravel	-	-	20.9

Chemtech Environmental Limited

SOILS

Lab number			96789-1	96789-2	96789-3	96789-4	96789-5	96789-6
Sample id			S	S14	S15	S16	S17	S18
Depth (m)			-	-	-	-	-	-
Date sampled			19/05/2021	19/05/2021	19/05/2021	19/05/2021	19/05/2021	19/05/2021
Test	Method	Units						
Arsenic (total)	CE127 ^M	mg/kg As	9.2	11	10	10	10	9.9
Boron (water soluble)	CE063	mg/kg B	<0.5	0.5	<0.5	<0.5	<0.5	<0.5
Cadmium (total)	CE127 ^M	mg/kg Cd	0.2	0.3	0.2	0.3	0.3	0.2
Chromium (VI)	CE146	mg/kg CrVI	<1	<1	<1	<1	<1	<1
Copper (total)	CE127 ^M	mg/kg Cu	20	22	21	21	20	20
Lead (total)	CE127 ^M	mg/kg Pb	50	59	55	53	56	53
Mercury (total)	CE127 ^M	mg/kg Hg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel (total)	CE127 ^M	mg/kg Ni	10	11	11	11	10	10
Selenium (total)	CE127 ^M	mg/kg Se	0.7	0.8	0.8	0.7	0.8	0.8
Zinc (total)	CE127 ^M	mg/kg Zn	51	55	57	51	55	51
pH	CE004 ^M	units	6.9	6.5	6.5	6.3	6.9	6.8
Sulphate (2:1 water soluble)	CE061	mg/l SO ₄	89	48	46	48	34	50
PAH								
Naphthalene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	0.03	<0.02
Acenaphthylene	CE087 ^M	mg/kg	0.03	<0.02	<0.02	<0.02	<0.02	0.03
Acenaphthene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Fluorene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Phenanthrene	CE087 ^M	mg/kg	0.36	0.18	0.17	0.16	0.20	0.24
Anthracene	CE087 ^U	mg/kg	0.14	0.03	0.03	0.03	0.03	0.02
Fluoranthene	CE087 ^M	mg/kg	1.05	0.36	0.46	0.41	0.41	0.51
Pyrene	CE087 ^M	mg/kg	0.91	0.32	0.41	0.37	0.38	0.46
Benzo(a)anthracene	CE087 ^U	mg/kg	0.52	0.16	0.24	0.23	0.21	0.23
Chrysene	CE087 ^M	mg/kg	0.50	0.23	0.31	0.25	0.23	0.23
Benzo(b)fluoranthene	CE087 ^M	mg/kg	0.69	0.26	0.38	0.39	0.33	0.36
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.27	0.10	0.13	0.15	0.12	0.14
Benzo(a)pyrene	CE087 ^U	mg/kg	0.56	0.20	0.30	0.30	0.26	0.29
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.40	0.15	0.22	0.25	0.19	0.21
Dibenz(ah)anthracene	CE087 ^M	mg/kg	0.06	<0.02	0.03	0.06	0.03	0.02
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.35	0.13	0.19	0.22	0.16	0.19
PAH (total of USEPA 16)	CE087	mg/kg	5.84	2.10	2.87	2.82	2.56	2.93
TPH								
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	0.01	0.01	<0.01	<0.01	0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE068	mg/kg	<1	<1	<1	<1	<1	<1
EPH Aromatic (>EC12-EC16)	CE068	mg/kg	<1	<1	<1	<1	<1	<1
EPH Aromatic (>EC16-EC21)	CE068	mg/kg	3	<1	2	<1	2	2
EPH Aromatic (>EC21-EC35)	CE068	mg/kg	4	2	3	3	2	2
EPH Aromatic (>EC35-EC44)	CE068	mg/kg	<1	<1	<1	<1	<1	<1
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Chemtech Environmental Limited

SOILS

Lab number			96789-1	96789-2	96789-3	96789-4	96789-5	96789-6
Sample id			S	S14	S15	S16	S17	S18
Depth (m)			-	-	-	-	-	-
Date sampled			19/05/2021	19/05/2021	19/05/2021	19/05/2021	19/05/2021	19/05/2021
Test	Method	Units						
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EPH Aliphatic (>C10-C12)	CE068	mg/kg	<4	<4	<4	<4	<4	<4
EPH Aliphatic (>C12-C16)	CE068	mg/kg	<4	<4	<4	<4	<4	<4
EPH Aliphatic (>C16-C35)	CE068	mg/kg	79	48	59	94	63	95
EPH Aliphatic (>C35-C44)	CE068	mg/kg	27	18	19	43	36	53
Subcontracted analysis								
Asbestos (qualitative)	\$	-	NAD	NAD	NAD	NAD	NAD	NAD

Chemtech Environmental Limited

SOILS

Lab number			96789-7	96789-8	96789-9
Sample id			S19	S20	S21
Depth (m)			-	-	-
Date sampled			19/05/2021	19/05/2021	19/05/2021
Test	Method	Units			
Arsenic (total)	CE127 ^M	mg/kg As	10	11	9.7
Boron (water soluble)	CE063	mg/kg B	<0.5	<0.5	<0.5
Cadmium (total)	CE127 ^M	mg/kg Cd	0.4	0.2	0.2
Chromium (VI)	CE146	mg/kg CrVI	<1	<1	<1
Copper (total)	CE127 ^M	mg/kg Cu	21	20	20
Lead (total)	CE127 ^M	mg/kg Pb	60	56	51
Mercury (total)	CE127 ^M	mg/kg Hg	0.7	<0.5	<0.5
Nickel (total)	CE127 ^M	mg/kg Ni	12	11	11
Selenium (total)	CE127 ^M	mg/kg Se	0.8	0.8	1.0
Zinc (total)	CE127 ^M	mg/kg Zn	58	51	51
pH	CE004 ^M	units	6.8	6.9	6.6
Sulphate (2:1 water soluble)	CE061	mg/l SO ₄	78	35	39
PAH					
Naphthalene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	0.02	<0.02	0.02
Acenaphthene	CE087 ^M	mg/kg	<0.02	<0.02	0.08
Fluorene	CE087 ^U	mg/kg	<0.02	0.03	0.06
Phenanthrene	CE087 ^M	mg/kg	0.19	1.04	0.72
Anthracene	CE087 ^U	mg/kg	0.05	0.65	0.17
Fluoranthene	CE087 ^M	mg/kg	0.54	3.60	1.03
Pyrene	CE087 ^M	mg/kg	0.49	3.00	0.94
Benzo(a)anthracene	CE087 ^U	mg/kg	0.28	1.66	0.51
Chrysene	CE087 ^M	mg/kg	0.28	1.59	0.49
Benzo(b)fluoranthene	CE087 ^M	mg/kg	0.46	1.64	0.72
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.16	0.71	0.28
Benzo(a)pyrene	CE087 ^U	mg/kg	0.36	1.39	0.56
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.26	0.91	0.38
Dibenz(ah)anthracene	CE087 ^M	mg/kg	0.05	0.17	0.07
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.23	0.73	0.33
PAH (total of USEPA 16)	CE087	mg/kg	3.37	17.1	6.37
TPH					
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	<0.01	0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE068	mg/kg	<1	<1	<1
EPH Aromatic (>EC12-EC16)	CE068	mg/kg	<1	<1	<1
EPH Aromatic (>EC16-EC21)	CE068	mg/kg	2	9	4
EPH Aromatic (>EC21-EC35)	CE068	mg/kg	3	9	4
EPH Aromatic (>EC35-EC44)	CE068	mg/kg	<1	<1	<1
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1	<0.1

Chemtech Environmental Limited

SOILS

Lab number			96789-7	96789-8	96789-9
Sample id			S19	S20	S21
Depth (m)			-	-	-
Date sampled			19/05/2021	19/05/2021	19/05/2021
Test	Method	Units			
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1	<0.1
EPH Aliphatic (>C10-C12)	CE068	mg/kg	<4	<4	<4
EPH Aliphatic (>C12-C16)	CE068	mg/kg	<4	<4	<4
EPH Aliphatic (>C16-C35)	CE068	mg/kg	71	50	70
EPH Aliphatic (>C35-C44)	CE068	mg/kg	29	20	37
Subcontracted analysis					
Asbestos (qualitative)	\$	-	NAD	NAD	NAD

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE127	Arsenic (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg As
CE063	Boron (water soluble)	Hot water extract, ICP-OES	Dry		0.5	mg/kg B
CE127	Cadmium (total)	Aqua regia digest, ICP-MS	Dry	M	0.2	mg/kg Cd
CE146	Chromium (VI)	Acid extraction, Colorimetry	Dry		1	mg/kg CrVI
CE127	Copper (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Cu
CE127	Lead (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Pb
CE127	Mercury (total)	Aqua regia digest, ICP-MS	Dry	M	0.5	mg/kg Hg
CE127	Nickel (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Ni
CE127	Selenium (total)	Aqua regia digest, ICP-MS	Dry	M	0.3	mg/kg Se
CE127	Zinc (total)	Aqua regia digest, ICP-MS	Dry	M	5	mg/kg Zn
CE004	pH	Based on BS 1377, pH Meter	As received	M	-	units
CE061	Sulphate (2:1 water soluble)	Aqueous extraction, ICP-OES	Dry		10	mg/l SO ₄
CE087	Naphthalene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Fluorene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Phenanthrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(a)anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Chrysene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(b)fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(k)fluoranthene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(a)pyrene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Indeno(123cd)pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Dibenz(ah)anthracene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(ghi)perylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	PAH (total of USEPA 16)	Solvent extraction, GC-MS	As received		0.34	mg/kg
CE067	VPH Aromatic (>EC5-EC7)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC7-EC8)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC8-EC10)	Headspace GC-FID	As received		0.01	mg/kg
CE068	EPH Aromatic (>EC10-EC12)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC12-EC16)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC16-EC21)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC21-EC35)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC35-EC44)	Solvent extraction, GC-FID	As received		1	mg/kg
CE067	VPH Aliphatic (>C5-C6)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C6-C8)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C8-C10)	Headspace GC-FID	As received		0.1	mg/kg
CE068	EPH Aliphatic (>C10-C12)	Solvent extraction, GC-FID	As received		4	mg/kg
CE068	EPH Aliphatic (>C12-C16)	Solvent extraction, GC-FID	As received		4	mg/kg
CE068	EPH Aliphatic (>C16-C35)	Solvent extraction, GC-FID	As received		4	mg/kg
CE068	EPH Aliphatic (>C35-C44)	Solvent extraction, GC-FID	As received		10	mg/kg

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
\$	Asbestos (qualitative)	HSG 248, Microscopy	Dry	U	-	-

Chemtech Environmental Limited

DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.

For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.

Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

N	No (not deviating sample)
Y	Yes (deviating sample)
NSD	Sampling date not provided
NST	Sampling time not provided (waters only)
EHT	Sample exceeded holding time(s)
IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
96789-1	S	-	Y	pH (EHT), PAH (EHT), TPH (EHT)
96789-2	S14	-	Y	pH (EHT), PAH (EHT), TPH (EHT)
96789-3	S15	-	Y	pH (EHT), PAH (EHT), TPH (EHT)
96789-4	S16	-	Y	pH (EHT), PAH (EHT), TPH (EHT)
96789-5	S17	-	Y	pH (EHT), PAH (EHT), TPH (EHT)
96789-6	S18	-	Y	pH (EHT), PAH (EHT), TPH (EHT)
96789-7	S19	-	Y	pH (EHT), PAH (EHT), TPH (EHT)
96789-8	S20	-	Y	pH (EHT), PAH (EHT), TPH (EHT)
96789-9	S21	-	Y	pH (EHT), PAH (EHT), TPH (EHT)



ANALYTICAL TEST REPORT

Contract no: 97775
Contract name: ABC, Mid Holmfirth
Client reference: -
Clients name: Ashton Bennett
Clients address: 131 Huddersfield Road
Holmfirth
West Yorkshire
HD9 3TW

Samples received: 28 June 2021
Analysis started: 28 June 2021
Analysis completed: 05 July 2021
Report issued: 05 July 2021

Notes: Opinions and interpretations expressed herein are outside the UKAS accreditation scope.
Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.
All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing.
Methods, procedures and performance data are available on request.
Results reported herein relate only to the material supplied to the laboratory.
This report shall not be reproduced except in full, without prior written approval.
Samples will be disposed of 6 weeks from initial receipt unless otherwise instructed.

Key: U UKAS accredited test
M MCERTS & UKAS accredited test
\$ Test carried out by an approved subcontractor
I/S Insufficient sample to carry out test
N/S Sample not suitable for testing

Approved by:

Rachael Burton
Customer Support Squad Leader

Chemtech Environmental Limited

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

All results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.

Analytical results are inclusive of stones.

Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
97775-1	SA14	-	Loamy Sand with Gravel & Roots	-	-	10.8
97775-2	SA15	-	Loamy Sand with Gravel & Roots	-	-	7.9
97775-3	SA16	-	Loamy Sand with Gravel & Roots	-	-	9.7
97775-4	SA17	-	Loamy Sand with Gravel & Roots	-	-	11.2
97775-5	SA18	-	Loamy Sand with Gravel & Roots	-	-	6.5
97775-6	SA19	-	Loamy Sand with Gravel & Roots	-	-	18.0
97775-7	SA20	-	Loamy Sand with Gravel & Roots	-	-	16.2
97775-8	SA21	-	Loamy Sand with Gravel & Roots	-	-	9.6
97775-9	Stock	-	Loamy Sand with Gravel & Roots	-	-	8.7

Chemtech Environmental Limited

SOILS

Lab number			97775-1	97775-2	97775-3	97775-4	97775-5	97775-6
Sample id			SA14	SA15	SA16	SA17	SA18	SA19
Depth (m)			-	-	-	-	-	-
Date sampled			24/06/2021	24/06/2021	24/06/2021	24/06/2021	24/06/2021	24/06/2021
Test	Method	Units						
pH	CE004 ^M	units	6.8	7.0	6.7	6.9	6.9	6.9
PAH								
Naphthalene	CE087 ^M	mg/kg	0.02	0.04	<0.02	0.05	0.07	<0.02
Acenaphthylene	CE087 ^M	mg/kg	0.05	0.12	0.03	0.02	0.06	<0.02
Acenaphthene	CE087 ^M	mg/kg	0.03	0.09	<0.02	0.17	0.06	<0.02
Fluorene	CE087 ^U	mg/kg	0.03	0.10	<0.02	0.14	0.09	<0.02
Phenanthrene	CE087 ^M	mg/kg	0.54	1.92	0.22	1.06	1.21	0.17
Anthracene	CE087 ^U	mg/kg	0.10	0.17	0.09	0.17	0.11	0.03
Fluoranthene	CE087 ^M	mg/kg	0.89	2.45	0.53	1.34	1.28	0.38
Pyrene	CE087 ^M	mg/kg	0.76	1.94	0.48	1.18	1.05	0.34
Benzo(a)anthracene	CE087 ^U	mg/kg	0.35	0.64	0.26	0.57	0.45	0.17
Chrysene	CE087 ^M	mg/kg	0.47	1.08	0.32	0.64	0.61	0.22
Benzo(b)fluoranthene	CE087 ^M	mg/kg	0.51	1.07	0.36	0.65	0.64	0.25
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.19	0.47	0.15	0.25	0.27	0.09
Benzo(a)pyrene	CE087 ^U	mg/kg	0.36	0.72	0.25	0.47	0.46	0.18
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.34	0.71	0.24	0.42	0.41	0.15
Dibenz(ah)anthracene	CE087 ^M	mg/kg	0.04	0.10	0.02	0.06	0.06	<0.02
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.26	0.53	0.20	0.34	0.33	0.13
PAH (total of USEPA 16)	CE087	mg/kg	4.93	12.2	3.15	7.52	7.16	2.10
TPH								
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE068	mg/kg	<1	<1	<1	<1	<1	<1
EPH Aromatic (>EC12-EC16)	CE068	mg/kg	<1	<1	<1	<1	<1	<1
EPH Aromatic (>EC16-EC21)	CE068	mg/kg	3	8	2	5	5	<1
EPH Aromatic (>EC21-EC35)	CE068	mg/kg	3	6	3	4	4	2
EPH Aromatic (>EC35-EC44)	CE068	mg/kg	<1	<1	<1	<1	<1	<1
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EPH Aliphatic (>C10-C12)	CE068	mg/kg	<4	<4	<4	<4	<4	<4
EPH Aliphatic (>C12-C16)	CE068	mg/kg	<4	5	4	<4	<4	8
EPH Aliphatic (>C16-C35)	CE068	mg/kg	57	77	108	78	93	69
EPH Aliphatic (>C35-C44)	CE068	mg/kg	25	27	39	35	26	17

Chemtech Environmental Limited

SOILS

Lab number			97775-7	97775-8	97775-9
Sample id			SA20	SA21	Stock
Depth (m)			-	-	-
Date sampled			24/06/2021	24/06/2021	24/06/2021
Test	Method	Units			
pH	CE004 ^M	units	7.0	6.7	6.7
PAH					
Naphthalene	CE087 ^M	mg/kg	<0.02	0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	0.02	0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	<0.02	<0.02	0.05
Fluorene	CE087 ^U	mg/kg	<0.02	<0.02	0.03
Phenanthrene	CE087 ^M	mg/kg	0.23	0.23	0.47
Anthracene	CE087 ^U	mg/kg	0.04	0.06	0.09
Fluoranthene	CE087 ^M	mg/kg	0.51	0.57	0.84
Pyrene	CE087 ^M	mg/kg	0.46	0.53	0.74
Benzo(a)anthracene	CE087 ^U	mg/kg	0.23	0.26	0.34
Chrysene	CE087 ^M	mg/kg	0.29	0.36	0.43
Benzo(b)fluoranthene	CE087 ^M	mg/kg	0.32	0.42	0.46
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.12	0.16	0.18
Benzo(a)pyrene	CE087 ^U	mg/kg	0.23	0.29	0.31
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.21	0.27	0.31
Dibenz(ah)anthracene	CE087 ^M	mg/kg	0.03	0.04	0.04
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.17	0.23	0.25
PAH (total of USEPA 16)	CE087	mg/kg	2.86	3.47	4.55
TPH					
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	<0.01	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE068	mg/kg	<1	<1	<1
EPH Aromatic (>EC12-EC16)	CE068	mg/kg	<1	<1	<1
EPH Aromatic (>EC16-EC21)	CE068	mg/kg	2	2	3
EPH Aromatic (>EC21-EC35)	CE068	mg/kg	2	3	3
EPH Aromatic (>EC35-EC44)	CE068	mg/kg	<1	<1	<1
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1	<0.1
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1	<0.1
EPH Aliphatic (>C10-C12)	CE068	mg/kg	<4	<4	<4
EPH Aliphatic (>C12-C16)	CE068	mg/kg	<4	<4	5
EPH Aliphatic (>C16-C35)	CE068	mg/kg	55	70	83
EPH Aliphatic (>C35-C44)	CE068	mg/kg	15	26	35

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE004	pH	Based on BS 1377, pH Meter	As received	M	-	units
CE087	Naphthalene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Fluorene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Phenanthrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(a)anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Chrysene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(b)fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(k)fluoranthene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(a)pyrene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Indeno(123cd)pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Dibenz(ah)anthracene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(ghi)perylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	PAH (total of USEPA 16)	Solvent extraction, GC-MS	As received		0.34	mg/kg
CE067	VPH Aromatic (>EC5-EC7)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC7-EC8)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC8-EC10)	Headspace GC-FID	As received		0.01	mg/kg
CE068	EPH Aromatic (>EC10-EC12)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC12-EC16)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC16-EC21)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC21-EC35)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC35-EC44)	Solvent extraction, GC-FID	As received		1	mg/kg
CE067	VPH Aliphatic (>C5-C6)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C6-C8)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C8-C10)	Headspace GC-FID	As received		0.1	mg/kg
CE068	EPH Aliphatic (>C10-C12)	Solvent extraction, GC-FID	As received		4	mg/kg
CE068	EPH Aliphatic (>C12-C16)	Solvent extraction, GC-FID	As received		4	mg/kg
CE068	EPH Aliphatic (>C16-C35)	Solvent extraction, GC-FID	As received		4	mg/kg
CE068	EPH Aliphatic (>C35-C44)	Solvent extraction, GC-FID	As received		10	mg/kg

Chemtech Environmental Limited

DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.

For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.

Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

N	No (not deviating sample)
Y	Yes (deviating sample)
NSD	Sampling date not provided
NST	Sampling time not provided (waters only)
EHT	Sample exceeded holding time(s)
IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
97775-1	SA14	-	N	
97775-2	SA15	-	N	
97775-3	SA16	-	N	
97775-4	SA17	-	N	
97775-5	SA18	-	N	
97775-6	SA19	-	N	
97775-7	SA20	-	N	
97775-8	SA21	-	N	
97775-9	Stock	-	N	



ANALYTICAL TEST REPORT

Contract no: 99753
Contract name: ABC
Client reference: 3454
Clients name: Ashton Bennett
Clients address: 131 Huddersfield Road
Holmfirth
West Yorkshire
HD9 3TW

Samples received: 26 August 2021
Analysis started: 26 August 2021
Analysis completed: 03 September 2021
Report issued: 03 September 2021

Notes: Opinions and interpretations expressed herein are outside the UKAS accreditation scope.
Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.
All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing.
Methods, procedures and performance data are available on request.
Results reported herein relate only to the material supplied to the laboratory.
This report shall not be reproduced except in full, without prior written approval.
Samples will be disposed of 6 weeks from initial receipt unless otherwise instructed.

Key: U UKAS accredited test
M MCERTS & UKAS accredited test
\$ Test carried out by an approved subcontractor
I/S Insufficient sample to carry out test
N/S Sample not suitable for testing
NAD No Asbestos Detected

Approved by:

Rachael Burton
Customer Support Squad Leader

Chemtech Environmental Limited

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

All results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.

Analytical results are inclusive of stones.

Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
99753-1	7	-	Sandy Loamy Clay with Gravel	-	-	21.0
99753-2	8	-	Sandy Loamy Clay with Gravel	-	-	18.7
99753-3	9	-	Sandy Loamy Clay with Gravel	-	-	16.9
99753-4	10	-	Sandy Loamy Clay with Gravel	-	-	21.9
99753-5	11	-	Sandy Loamy Clay with Roots	-	-	22.8
99753-6	12	-	Sandy Loamy Clay with Roots	-	-	20.2
99753-7	13	-	Sandy Loamy Clay with Roots	-	-	22.8

Chemtech Environmental Limited

SOILS

Lab number			99753-1	99753-2	99753-3	99753-4	99753-5	99753-6
Sample id			7	8	9	10	11	12
Depth (m)			-	-	-	-	-	-
Date sampled			23/08/2021	23/08/2021	23/08/2021	23/08/2021	23/08/2021	23/08/2021
Test	Method	Units						
Arsenic (total)	CE127 ^M	mg/kg As	9.5	9.3	8.2	9.9	9.8	9.8
Cadmium (total)	CE127 ^M	mg/kg Cd	0.2	0.3	<0.2	0.2	0.2	0.3
Chromium (total)	CE127 ^M	mg/kg Cr	182	199	170	200	188	177
Copper (total)	CE127 ^M	mg/kg Cu	21	21	20	20	21	22
Lead (total)	CE127 ^M	mg/kg Pb	53	50	47	54	57	66
Mercury (total)	CE127 ^M	mg/kg Hg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel (total)	CE127 ^M	mg/kg Ni	13	13	12	12	12	16
Selenium (total)	CE127 ^M	mg/kg Se	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Zinc (total)	CE127 ^M	mg/kg Zn	59	53	53	56	55	59
pH	CE004 ^M	units	6.7	6.8	6.7	6.7	6.7	6.5
Sulphate (2:1 water soluble)	CE061 ^U	mg/l SO ₄	61	67	66	57	54	58
PAH								
Naphthalene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02	0.03	<0.02	0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	0.07	<0.02
Fluorene	CE087 ^U	mg/kg	<0.02	<0.02	<0.02	<0.02	0.05	<0.02
Phenanthrene	CE087 ^M	mg/kg	0.23	0.17	0.19	0.13	0.77	0.20
Anthracene	CE087 ^U	mg/kg	0.04	0.06	0.05	0.02	0.14	0.06
Fluoranthene	CE087 ^M	mg/kg	0.53	0.42	1.14	0.29	1.31	0.47
Pyrene	CE087 ^M	mg/kg	0.47	0.39	1.14	0.26	1.10	0.42
Benzo(a)anthracene	CE087 ^U	mg/kg	0.24	0.19	0.84	0.12	0.51	0.21
Chrysene	CE087 ^M	mg/kg	0.22	0.19	0.84	0.15	0.59	0.26
Benzo(b)fluoranthene	CE087 ^M	mg/kg	0.36	0.30	0.95	0.19	0.62	0.30
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.15	0.10	0.41	0.06	0.22	0.11
Benzo(a)pyrene	CE087 ^U	mg/kg	0.27	0.21	0.77	0.14	0.48	0.21
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.21	0.18	0.53	0.10	0.36	0.18
Dibenz(ah)anthracene	CE087 ^M	mg/kg	0.04	0.03	0.10	<0.02	0.06	0.03
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.18	0.14	0.43	0.09	0.29	0.14
PAH (total of USEPA 16)	CE087	mg/kg	2.93	2.37	7.41	1.54	6.58	2.59
TPH								
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE068	mg/kg	<1	<1	<1	<1	<1	<1
EPH Aromatic (>EC12-EC16)	CE068	mg/kg	<1	<1	<1	<1	<1	<1
EPH Aromatic (>EC16-EC21)	CE068	mg/kg	2	2	4	<1	4	2
EPH Aromatic (>EC21-EC35)	CE068	mg/kg	2	2	5	<1	4	2
EPH Aromatic (>EC35-EC44)	CE068	mg/kg	<1	<1	<1	<1	<1	<1
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Chemtech Environmental Limited

SOILS

Lab number			99753-1	99753-2	99753-3	99753-4	99753-5	99753-6
Sample id			7	8	9	10	11	12
Depth (m)			-	-	-	-	-	-
Date sampled			23/08/2021	23/08/2021	23/08/2021	23/08/2021	23/08/2021	23/08/2021
Test	Method	Units						
EPH Aliphatic (>C10-C12)	CE068	mg/kg	<4	<4	<4	<4	<4	<4
EPH Aliphatic (>C12-C16)	CE068	mg/kg	<4	<4	5	8	5	6
EPH Aliphatic (>C16-C35)	CE068	mg/kg	120	72	107	193	127	273
EPH Aliphatic (>C35-C44)	CE068	mg/kg	45	28	32	59	37	41
Subcontracted analysis								
Asbestos (qualitative)	\$	-	NAD	NAD	NAD	NAD	NAD	NAD

Chemtech Environmental Limited

SOILS

Lab number			99753-7
Sample id			13
Depth (m)			-
Date sampled			23/08/2021
Test	Method	Units	
Arsenic (total)	CE127 ^M	mg/kg As	9.7
Cadmium (total)	CE127 ^M	mg/kg Cd	0.3
Chromium (total)	CE127 ^M	mg/kg Cr	224
Copper (total)	CE127 ^M	mg/kg Cu	20
Lead (total)	CE127 ^M	mg/kg Pb	53
Mercury (total)	CE127 ^M	mg/kg Hg	<0.5
Nickel (total)	CE127 ^M	mg/kg Ni	12
Selenium (total)	CE127 ^M	mg/kg Se	<0.3
Zinc (total)	CE127 ^M	mg/kg Zn	57
pH	CE004 ^M	units	6.4
Sulphate (2:1 water soluble)	CE061 ^U	mg/l SO ₄	249
PAH			
Naphthalene	CE087 ^M	mg/kg	0.03
Acenaphthylene	CE087 ^M	mg/kg	0.02
Acenaphthene	CE087 ^M	mg/kg	0.05
Fluorene	CE087 ^U	mg/kg	0.05
Phenanthrene	CE087 ^M	mg/kg	0.68
Anthracene	CE087 ^U	mg/kg	0.10
Fluoranthene	CE087 ^M	mg/kg	0.96
Pyrene	CE087 ^M	mg/kg	0.80
Benzo(a)anthracene	CE087 ^U	mg/kg	0.40
Chrysene	CE087 ^M	mg/kg	0.49
Benzo(b)fluoranthene	CE087 ^M	mg/kg	0.59
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.22
Benzo(a)pyrene	CE087 ^U	mg/kg	0.44
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.35
Dibenz(ah)anthracene	CE087 ^M	mg/kg	0.06
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.28
PAH (total of USEPA 16)	CE087	mg/kg	5.54
TPH			
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01
EPH Aromatic (>EC10-EC12)	CE068	mg/kg	<1
EPH Aromatic (>EC12-EC16)	CE068	mg/kg	<1
EPH Aromatic (>EC16-EC21)	CE068	mg/kg	4
EPH Aromatic (>EC21-EC35)	CE068	mg/kg	4
EPH Aromatic (>EC35-EC44)	CE068	mg/kg	<1
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1

Chemtech Environmental Limited

SOILS

Lab number			99753-7
Sample id			13
Depth (m)			-
Date sampled			23/08/2021
Test	Method	Units	
EPH Aliphatic (>C10-C12)	CE068	mg/kg	<4
EPH Aliphatic (>C12-C16)	CE068	mg/kg	<4
EPH Aliphatic (>C16-C35)	CE068	mg/kg	93
EPH Aliphatic (>C35-C44)	CE068	mg/kg	34
Subcontracted analysis			
Asbestos (qualitative)	\$	-	NAD

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE127	Arsenic (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg As
CE127	Cadmium (total)	Aqua regia digest, ICP-MS	Dry	M	0.2	mg/kg Cd
CE127	Chromium (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Cr
CE127	Copper (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Cu
CE127	Lead (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Pb
CE127	Mercury (total)	Aqua regia digest, ICP-MS	Dry	M	0.5	mg/kg Hg
CE127	Nickel (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Ni
CE127	Selenium (total)	Aqua regia digest, ICP-MS	Dry	M	0.3	mg/kg Se
CE127	Zinc (total)	Aqua regia digest, ICP-MS	Dry	M	5	mg/kg Zn
CE004	pH	Based on BS 1377, pH Meter	As received	M	-	units
CE061	Sulphate (2:1 water soluble)	Aqueous extraction, ICP-OES	Dry	U	10	mg/l SO ₄
CE087	Naphthalene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Fluorene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Phenanthrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(a)anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Chrysene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(b)fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(k)fluoranthene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(a)pyrene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Indeno(123cd)pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Dibenz(ah)anthracene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(ghi)perylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	PAH (total of USEPA 16)	Solvent extraction, GC-MS	As received		0.34	mg/kg
CE067	VPH Aromatic (>EC5-EC7)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC7-EC8)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC8-EC10)	Headspace GC-FID	As received		0.01	mg/kg
CE068	EPH Aromatic (>EC10-EC12)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC12-EC16)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC16-EC21)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC21-EC35)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC35-EC44)	Solvent extraction, GC-FID	As received		1	mg/kg
CE067	VPH Aliphatic (>C5-C6)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C6-C8)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C8-C10)	Headspace GC-FID	As received		0.1	mg/kg
CE068	EPH Aliphatic (>C10-C12)	Solvent extraction, GC-FID	As received		6	mg/kg
CE068	EPH Aliphatic (>C12-C16)	Solvent extraction, GC-FID	As received		6	mg/kg
CE068	EPH Aliphatic (>C16-C35)	Solvent extraction, GC-FID	As received		15	mg/kg
CE068	EPH Aliphatic (>C35-C44)	Solvent extraction, GC-FID	As received		10	mg/kg
\$	Asbestos (qualitative)	HSG 248, Microscopy	Dry	U	-	-

Chemtech Environmental Limited

DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.

For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.

Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

N	No (not deviating sample)
Y	Yes (deviating sample)
NSD	Sampling date not provided
NST	Sampling time not provided (waters only)
EHT	Sample exceeded holding time(s)
IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
99753-1	7	-	N	
99753-2	8	-	N	
99753-3	9	-	N	
99753-4	10	-	N	
99753-5	11	-	N	
99753-6	12	-	N	
99753-7	13	-	N	



ANALYTICAL TEST REPORT

Contract no: 100469
Contract name: Midlo
Client reference: 3454
Clients name: Ashton Bennett
Clients address: 131 Huddersfield Road
Holmfirth
West Yorkshire
HD9 3TW

Samples received: 16 September 2021
Analysis started: 16 September 2021
Analysis completed: 23 September 2021
Report issued: 23 September 2021

Notes: Opinions and interpretations expressed herein are outside the UKAS accreditation scope.
Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.
All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing.
Methods, procedures and performance data are available on request.
Results reported herein relate only to the material supplied to the laboratory.
This report shall not be reproduced except in full, without prior written approval.
Samples will be disposed of 6 weeks from initial receipt unless otherwise instructed.

Key: U UKAS accredited test
M MCERTS & UKAS accredited test
\$ Test carried out by an approved subcontractor
I/S Insufficient sample to carry out test
N/S Sample not suitable for testing
NAD No Asbestos Detected

Approved by:

Rachael Burton
Customer Support Squad Leader

Chemtech Environmental Limited

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

All results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.

Analytical results are inclusive of stones.

Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
100469-1	Sample 10	-	Sandy Loam with Gravel	-	-	15.3
100469-2	Sample 11	-	Sandy Loam with Gravel & Roots	-	-	15.6
100469-3	Sample 12	-	Sandy Clayey Loam with Gravel	-	-	14.2
100469-4	Sample 13	-	Sandy Clayey Loam with Gravel	-	-	16.4

Chemtech Environmental Limited

SOILS

Lab number			100469-1	100469-2	100469-3	100469-4
Sample id			Sample 10	Sample 11	Sample 12	Sample 13
Depth (m)			-	-	-	-
Date sampled			13/09/2021	13/09/2021	13/09/2021	13/09/2021
Test	Method	Units				
Arsenic (total)	CE127 ^M	mg/kg As	9.9	10	10	11
Cadmium (total)	CE127 ^M	mg/kg Cd	0.3	0.3	0.2	0.3
Chromium (total)	CE127 ^M	mg/kg Cr	173	138	176	143
Copper (total)	CE127 ^M	mg/kg Cu	24	21	22	55
Lead (total)	CE127 ^M	mg/kg Pb	62	56	56	59
Mercury (total)	CE127 ^M	mg/kg Hg	<0.5	<0.5	<0.5	<0.5
Nickel (total)	CE127 ^M	mg/kg Ni	16	12	13	14
Selenium (total)	CE127 ^M	mg/kg Se	0.9	0.8	0.8	0.9
Zinc (total)	CE127 ^M	mg/kg Zn	72	55	55	73
pH	CE004 ^M	units	7.0	6.9	6.8	6.5
Sulphate (2:1 water soluble)	CE061 ^U	mg/l SO ₄	185	159	68	100
PAH						
Naphthalene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	0.03	0.02	0.03	<0.02
Acenaphthene	CE087 ^M	mg/kg	<0.02	<0.02	0.04	<0.02
Fluorene	CE087 ^U	mg/kg	<0.02	<0.02	0.07	<0.02
Phenanthrene	CE087 ^M	mg/kg	0.27	0.20	0.58	0.14
Anthracene	CE087 ^U	mg/kg	0.04	0.05	0.18	0.03
Fluoranthene	CE087 ^M	mg/kg	0.57	0.51	0.75	0.41
Pyrene	CE087 ^M	mg/kg	0.45	0.46	0.71	0.40
Benzo(a)anthracene	CE087 ^U	mg/kg	0.22	0.22	0.33	0.20
Chrysene	CE087 ^M	mg/kg	0.21	0.21	0.31	0.18
Benzo(b)fluoranthene	CE087 ^M	mg/kg	0.34	0.35	0.38	0.31
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.14	0.14	0.16	0.13
Benzo(a)pyrene	CE087 ^U	mg/kg	0.23	0.26	0.29	0.22
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.20	0.22	0.24	0.20
Dibenz(ah)anthracene	CE087 ^M	mg/kg	0.04	0.05	0.06	0.03
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.18	0.19	0.20	0.16
PAH (total of USEPA 16)	CE087	mg/kg	2.93	2.87	4.33	2.40
TPH						
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE068	mg/kg	<1	<1	<1	<1
EPH Aromatic (>EC12-EC16)	CE068	mg/kg	<1	<1	<1	<1
EPH Aromatic (>EC16-EC21)	CE068	mg/kg	2	2	3	<1
EPH Aromatic (>EC21-EC35)	CE068	mg/kg	2	2	3	2
EPH Aromatic (>EC35-EC44)	CE068	mg/kg	<1	<1	<1	<1
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1

Chemtech Environmental Limited

SOILS

Lab number			100469-1	100469-2	100469-3	100469-4
Sample id			Sample 10	Sample 11	Sample 12	Sample 13
Depth (m)			-	-	-	-
Date sampled			13/09/2021	13/09/2021	13/09/2021	13/09/2021
Test	Method	Units				
EPH Aliphatic (>C10-C12)	CE068	mg/kg	<4	<4	<4	<4
EPH Aliphatic (>C12-C16)	CE068	mg/kg	<4	<4	<4	<4
EPH Aliphatic (>C16-C35)	CE068	mg/kg	50	133	41	44
EPH Aliphatic (>C35-C44)	CE068	mg/kg	19	45	18	19
Subcontracted analysis						
Asbestos (qualitative)	\$	-	NAD	NAD	NAD	NAD

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE127	Arsenic (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg As
CE127	Cadmium (total)	Aqua regia digest, ICP-MS	Dry	M	0.2	mg/kg Cd
CE127	Chromium (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Cr
CE127	Copper (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Cu
CE127	Lead (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Pb
CE127	Mercury (total)	Aqua regia digest, ICP-MS	Dry	M	0.5	mg/kg Hg
CE127	Nickel (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Ni
CE127	Selenium (total)	Aqua regia digest, ICP-MS	Dry	M	0.3	mg/kg Se
CE127	Zinc (total)	Aqua regia digest, ICP-MS	Dry	M	5	mg/kg Zn
CE004	pH	Based on BS 1377, pH Meter	As received	M	-	units
CE061	Sulphate (2:1 water soluble)	Aqueous extraction, ICP-OES	Dry	U	10	mg/l SO ₄
CE087	Naphthalene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Fluorene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Phenanthrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(a)anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Chrysene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(b)fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(k)fluoranthene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(a)pyrene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Indeno(123cd)pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Dibenz(ah)anthracene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(ghi)perylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	PAH (total of USEPA 16)	Solvent extraction, GC-MS	As received		0.34	mg/kg
CE067	VPH Aromatic (>EC5-EC7)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC7-EC8)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC8-EC10)	Headspace GC-FID	As received		0.01	mg/kg
CE068	EPH Aromatic (>EC10-EC12)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC12-EC16)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC16-EC21)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC21-EC35)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC35-EC44)	Solvent extraction, GC-FID	As received		1	mg/kg
CE067	VPH Aliphatic (>C5-C6)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C6-C8)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C8-C10)	Headspace GC-FID	As received		0.1	mg/kg
CE068	EPH Aliphatic (>C10-C12)	Solvent extraction, GC-FID	As received		6	mg/kg
CE068	EPH Aliphatic (>C12-C16)	Solvent extraction, GC-FID	As received		6	mg/kg
CE068	EPH Aliphatic (>C16-C35)	Solvent extraction, GC-FID	As received		15	mg/kg
CE068	EPH Aliphatic (>C35-C44)	Solvent extraction, GC-FID	As received		10	mg/kg
\$	Asbestos (qualitative)	HSG 248, Microscopy	Dry	U	-	-

Chemtech Environmental Limited

DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.

For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.

Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

N	No (not deviating sample)
Y	Yes (deviating sample)
NSD	Sampling date not provided
NST	Sampling time not provided (waters only)
EHT	Sample exceeded holding time(s)
IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
100469-1	Sample 10	-	N	
100469-2	Sample 11	-	N	
100469-3	Sample 12	-	N	
100469-4	Sample 13	-	N	



ANALYTICAL TEST REPORT

Contract no: 112142

Contract name: Frances Bennett

Client reference: 3500

Clients name: Ashton Bennett

Clients address: 131 Huddersfield Road
Holmfirth
West Yorkshire
HD9 3TW

Samples received: 02 August 2022

Analysis started: 02 August 2022

Analysis completed: 04 August 2022

Report issued: 04 August 2022

Key

U	UKAS accredited test
M	MCERTS & UKAS accredited test
\$	Test carried out by an approved subcontractor
I/S	Insufficient sample to carry out test
N/S	Sample not suitable for testing
NAD	No Asbestos Detected

Approved by:

Rachael Burton

Reporting Manager

Chemtech Environmental Limited

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
112142-1	22R	0.00-0.60	Sandy Loamy Clay with Gravel & Roots	-	-	13.9
112142-2	22F	0.00-0.60	Sandy Loamy Clay with Gravel & Roots	-	-	15.3
112142-3	23F	0.00-0.60	Sandy Loamy Clay with Gravel & Roots	-	-	15.4
112142-4	23R	0.00-0.60	Sandy Loamy Clay with Gravel & Roots	-	-	14.9
112142-5	24F	0.00-0.60	Sandy Loamy Clay with Gravel & Roots	-	-	14.1
112142-6	24R	0.00-0.60	Sandy Loamy Clay with Gravel & Roots	-	-	14.0
112142-7	25F	0.00-0.60	Sandy Loamy Clay with Gravel & Roots	-	-	13.8
112142-8	25R	0.00-0.60	Sandy Loamy Clay with Gravel & Roots	-	-	13.4

Chemtech Environmental Limited

SOILS

Lab number Sample id Depth (m) Date sampled			112142-1 22R 0.00-0.60 01/08/2022	112142-2 22F 0.00-0.60 01/08/2022	112142-3 23F 0.00-0.60 01/08/2022	112142-4 23R 0.00-0.60 01/08/2022	112142-5 24F 0.00-0.60 01/08/2022	112142-6 24R 0.00-0.60 01/08/2022
Test	Method	Units						
Arsenic (total)	CE127 ^M	mg/kg As	13	14	16	12	13	14
Boron (water soluble)	CE063 ^U	mg/kg B	1.6	1.1	0.8	0.8	1.0	1.0
Cadmium (total)	CE127 ^M	mg/kg Cd	0.3	0.4	0.4	0.4	0.5	0.4
Chromium (VI)	CE146	mg/kg CrVI	<1	<1	<1	<1	<1	<1
Copper (total)	CE127 ^M	mg/kg Cu	44	53	70	55	48	122
Lead (total)	CE127 ^M	mg/kg Pb	100	128	151	117	122	111
Mercury (total)	CE127 ^M	mg/kg Hg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel (total)	CE127 ^M	mg/kg Ni	26	23	28	26	27	26
Selenium (total)	CE127 ^M	mg/kg Se	1.2	1.2	1.1	1.4	2.0	1.4
Zinc (total)	CE127 ^M	mg/kg Zn	132	134	171	168	124	131
pH	CE004 ^M	units	8.3	8.0	7.8	7.5	7.4	7.5
Sulphate (2:1 water soluble)	CE061 ^U	mg/l SO ₄	624	200	182	238	447	259
PAH								
Naphthalene	CE087 ^M	mg/kg	0.40	0.22	0.18	0.29	0.18	<0.02
Acenaphthylene	CE087 ^M	mg/kg	0.30	0.08	0.11	0.15	0.10	<0.02
Acenaphthene	CE087 ^M	mg/kg	0.64	0.29	0.74	0.75	0.23	<0.02
Fluorene	CE087 ^U	mg/kg	0.44	0.25	0.61	0.55	0.18	<0.02
Phenanthrene	CE087 ^M	mg/kg	4.64	2.39	5.95	5.10	2.00	<0.02
Anthracene	CE087 ^U	mg/kg	1.28	0.72	1.78	1.38	0.45	<0.02
Fluoranthene	CE087 ^M	mg/kg	8.47	4.48	8.51	8.67	4.32	<0.02
Pyrene	CE087 ^M	mg/kg	7.11	4.00	7.27	7.51	3.82	<0.02
Benzo(a)anthracene	CE087 ^U	mg/kg	4.16	2.27	3.79	4.00	2.04	<0.02
Chrysene	CE087 ^M	mg/kg	3.77	2.03	3.28	3.47	1.83	<0.03
Benzo(b)fluoranthene	CE087 ^M	mg/kg	5.15	2.95	4.47	4.99	2.64	<0.02
Benzo(k)fluoranthene	CE087 ^M	mg/kg	2.18	1.11	1.90	2.06	1.09	<0.03
Benzo(a)pyrene	CE087 ^U	mg/kg	4.38	2.69	3.81	4.64	2.13	<0.02
Indeno(123cd)pyrene	CE087 ^M	mg/kg	3.90	2.17	3.48	3.75	1.82	<0.02
Dibenz(ah)anthracene	CE087 ^M	mg/kg	0.72	0.39	0.61	0.61	0.31	<0.02
Benzo(ghi)perylene	CE087 ^M	mg/kg	2.93	1.70	2.63	2.89	1.48	<0.02
PAH (total of USEPA 16)	CE087	mg/kg	50.5	27.8	49.1	50.8	24.6	<0.34
TPH								
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE250	mg/kg	38	2	2	2	1	2
EPH Aromatic (>EC12-EC16)	CE250	mg/kg	151	6	6	6	4	7
EPH Aromatic (>EC16-EC21)	CE250	mg/kg	583	49	43	32	27	48
EPH Aromatic (>EC21-EC35)	CE250	mg/kg	256	97	89	92	73	112
EPH Aromatic (>EC35-EC44)	CE250	mg/kg	7	5	6	7	6	10
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Chemtech Environmental Limited

SOILS

Lab number			112142-1	112142-2	112142-3	112142-4	112142-5	112142-6
Sample id			22R	22F	23F	23R	24F	24R
Depth (m)			0.00-0.60	0.00-0.60	0.00-0.60	0.00-0.60	0.00-0.60	0.00-0.60
Date sampled			01/08/2022	01/08/2022	01/08/2022	01/08/2022	01/08/2022	01/08/2022
Test	Method	Units						
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EPH Aliphatic (>C10-C12)	CE250	mg/kg	<6	<6	<6	<6	<6	<6
EPH Aliphatic (>C12-C16)	CE250	mg/kg	<6	<6	<6	<6	<6	<6
EPH Aliphatic (>C16-C35)	CE250	mg/kg	<15	<15	<15	15	<15	17
EPH Aliphatic (>C35-C44)	CE250	mg/kg	<10	<10	<10	<10	<10	<10
Subcontracted analysis								
Asbestos (qualitative)	\$	-	NAD	NAD	NAD	NAD	NAD	NAD

Chemtech Environmental Limited

SOILS

Lab number			112142-7	112142-8
Sample id			25F	25R
Depth (m)			0.00-0.60	0.00-0.60
Date sampled			01/08/2022	01/08/2022
Test	Method	Units		
Arsenic (total)	CE127 ^M	mg/kg As	11	17
Boron (water soluble)	CE063 ^U	mg/kg B	0.9	0.8
Cadmium (total)	CE127 ^M	mg/kg Cd	0.3	0.3
Chromium (VI)	CE146	mg/kg CrVI	<1	<1
Copper (total)	CE127 ^M	mg/kg Cu	47	57
Lead (total)	CE127 ^M	mg/kg Pb	107	117
Mercury (total)	CE127 ^M	mg/kg Hg	<0.5	<0.5
Nickel (total)	CE127 ^M	mg/kg Ni	26	27
Selenium (total)	CE127 ^M	mg/kg Se	1.2	1.4
Zinc (total)	CE127 ^M	mg/kg Zn	108	127
pH	CE004 ^M	units	7.5	7.5
Sulphate (2:1 water soluble)	CE061 ^U	mg/l SO ₄	652	443
PAH				
Naphthalene	CE087 ^M	mg/kg	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	<0.02	<0.02
Fluorene	CE087 ^U	mg/kg	<0.02	<0.02
Phenanthrene	CE087 ^M	mg/kg	<0.02	<0.02
Anthracene	CE087 ^U	mg/kg	<0.02	<0.02
Fluoranthene	CE087 ^M	mg/kg	<0.02	<0.02
Pyrene	CE087 ^M	mg/kg	<0.02	<0.02
Benzo(a)anthracene	CE087 ^U	mg/kg	<0.02	<0.02
Chrysene	CE087 ^M	mg/kg	<0.03	<0.03
Benzo(b)fluoranthene	CE087 ^M	mg/kg	<0.02	<0.02
Benzo(k)fluoranthene	CE087 ^M	mg/kg	<0.03	<0.03
Benzo(a)pyrene	CE087 ^U	mg/kg	<0.02	<0.02
Indeno(123cd)pyrene	CE087 ^M	mg/kg	<0.02	<0.02
Dibenz(ah)anthracene	CE087 ^M	mg/kg	<0.02	<0.02
Benzo(ghi)perylene	CE087 ^M	mg/kg	<0.02	<0.02
PAH (total of USEPA 16)	CE087	mg/kg	<0.34	<0.34
TPH				
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE250	mg/kg	3	2
EPH Aromatic (>EC12-EC16)	CE250	mg/kg	26	12
EPH Aromatic (>EC16-EC21)	CE250	mg/kg	160	59
EPH Aromatic (>EC21-EC35)	CE250	mg/kg	188	113
EPH Aromatic (>EC35-EC44)	CE250	mg/kg	11	8
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1

Chemtech Environmental Limited

SOILS

Lab number			112142-7	112142-8
Sample id			25F	25R
Depth (m)			0.00-0.60	0.00-0.60
Date sampled			01/08/2022	01/08/2022
Test	Method	Units		
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1
EPH Aliphatic (>C10-C12)	CE250	mg/kg	<6	<6
EPH Aliphatic (>C12-C16)	CE250	mg/kg	<6	<6
EPH Aliphatic (>C16-C35)	CE250	mg/kg	16	20
EPH Aliphatic (>C35-C44)	CE250	mg/kg	<10	<10
Subcontracted analysis				
Asbestos (qualitative)	\$	-	NAD	NAD

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE127	Arsenic (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg As
CE063 ^U	Boron (water soluble)	Hot water extract, ICP-OES	Dry	U	0.5	mg/kg B
CE127	Cadmium (total)	Aqua regia digest, ICP-MS	Dry	M	0.2	mg/kg Cd
CE146	Chromium (VI)	Acid extraction, Colorimetry	Dry		1	mg/kg CrVI
CE127	Copper (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Cu
CE127	Lead (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Pb
CE127	Mercury (total)	Aqua regia digest, ICP-MS	Dry	M	0.5	mg/kg Hg
CE127	Nickel (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Ni
CE127	Selenium (total)	Aqua regia digest, ICP-MS	Dry	M	0.3	mg/kg Se
CE127	Zinc (total)	Aqua regia digest, ICP-MS	Dry	M	5	mg/kg Zn
CE004	pH	Based on BS 1377, pH Meter	As received	M	-	units
CE061	Sulphate (2:1 water soluble)	Aqueous extraction, ICP-OES	Dry	U	10	mg/l SO ₄
CE087	Naphthalene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Fluorene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Phenanthrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(a)anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Chrysene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(b)fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(k)fluoranthene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(a)pyrene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Indeno(123cd)pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Dibenz(ah)anthracene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(ghi)perylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	PAH (total of USEPA 16)	Solvent extraction, GC-MS	As received		0.34	mg/kg
CE067	VPH Aromatic (>EC5-EC7)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC7-EC8)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC8-EC10)	Headspace GC-FID	As received		0.01	mg/kg
CE250	EPH Aromatic (>EC10-EC12)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aromatic (>EC12-EC16)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aromatic (>EC16-EC21)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aromatic (>EC21-EC35)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aromatic (>EC35-EC44)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE067	VPH Aliphatic (>C5-C6)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C6-C8)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C8-C10)	Headspace GC-FID	As received		0.1	mg/kg
CE250	EPH Aliphatic (>C10-C12)	Solvent extraction, GCxGC-FID	As received		6	mg/kg
CE250	EPH Aliphatic (>C12-C16)	Solvent extraction, GCxGC-FID	As received		6	mg/kg
CE250	EPH Aliphatic (>C16-C35)	Solvent extraction, GCxGC-FID	As received		15	mg/kg
CE250	EPH Aliphatic (>C35-C44)	Solvent extraction, GCxGC-FID	As received		10	mg/kg

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
\$	Asbestos (qualitative)	HSG 248, Microscopy	Dry	U	-	-

Chemtech Environmental Limited

DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.

For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.

Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

N	No (not deviating sample)
Y	Yes (deviating sample)
NSD	Sampling date not provided
NST	Sampling time not provided (waters only)
EHT	Sample exceeded holding time(s)
IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
112142-1	22R	0.00-0.60	N	
112142-2	22F	0.00-0.60	N	
112142-3	23F	0.00-0.60	N	
112142-4	23R	0.00-0.60	N	
112142-5	24F	0.00-0.60	N	
112142-6	24R	0.00-0.60	N	
112142-7	25F	0.00-0.60	N	
112142-8	25R	0.00-0.60	N	

Chemtech Environmental Limited

ADDITIONAL INFORMATION

Notes

Opinions and interpretations expressed herein are outside the UKAS accreditation scope.

Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.

All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing.

Methods, procedures and performance data are available on request.

Results reported herein relate only to the material supplied to the laboratory.

This report shall not be reproduced except in full, without prior written approval.

Samples will be disposed of 4 weeks from initial receipt unless otherwise instructed.

For soils and solids, all results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.

For soils and solids, analytical results are inclusive of stones, where applicable.

Chemtech Environmental Limited

SOILS

Lab number			114106-1	114106-2	114106-3	114106-4	114106-5	114106-6
Sample id			26	27	28	29	30	31
Depth (m)			-	-	-	-	-	-
Date sampled			28/09/2022	28/09/2022	28/09/2022	28/09/2022	28/09/2022	28/09/2022
Test	Method	Units						
Arsenic (total)	CE127 ^M	mg/kg As	9.1	8.5	13	9.5	8.2	8.3
Boron (water soluble)	CE063 ^U	mg/kg B	<0.5	0.5	<0.5	0.8	0.8	0.8
Cadmium (total)	CE127 ^M	mg/kg Cd	0.3	0.4	0.4	0.4	0.3	1.3
Chromium (VI)	CE146	mg/kg CrVI	<1	<1	<1	<1	<1	<1
Copper (total)	CE127 ^M	mg/kg Cu	21	55	52	36	33	37
Lead (total)	CE127 ^M	mg/kg Pb	52	53	113	60	57	70
Mercury (total)	CE127 ^M	mg/kg Hg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel (total)	CE127 ^M	mg/kg Ni	20	25	29	30	26	27
Selenium (total)	CE127 ^M	mg/kg Se	0.8	1.0	1.2	1.1	1.0	0.9
Zinc (total)	CE127 ^M	mg/kg Zn	61	86	143	126	102	94
pH	CE004 ^M	units	8.6	8.5	6.9	7.4	8.1	7.9
Sulphate (2:1 water soluble)	CE061 ^U	mg/l SO ₄	222	200	263	334	386	377
PAH								
Naphthalene	CE087 ^M	mg/kg	0.04	0.04	0.21	0.26	0.39	0.81
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02	0.12	0.06	0.06	0.05
Acenaphthene	CE087 ^M	mg/kg	0.09	0.05	0.66	0.57	0.47	0.44
Fluorene	CE087 ^U	mg/kg	0.06	0.04	0.68	0.42	0.37	0.32
Phenanthrene	CE087 ^M	mg/kg	0.55	0.65	8.92	4.74	3.50	3.36
Anthracene	CE087 ^U	mg/kg	0.20	0.21	2.28	1.29	1.11	0.87
Fluoranthene	CE087 ^M	mg/kg	1.71	1.46	17.37	7.12	5.93	4.94
Pyrene	CE087 ^M	mg/kg	1.49	1.26	13.80	6.26	5.22	4.19
Benzo(a)anthracene	CE087 ^U	mg/kg	0.77	0.64	7.16	3.37	2.93	2.30
Chrysene	CE087 ^M	mg/kg	0.59	0.50	6.05	2.53	2.15	1.69
Benzo(b)fluoranthene	CE087 ^M	mg/kg	0.81	0.75	8.16	3.94	3.47	2.62
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.33	0.30	3.29	1.51	1.37	1.04
Benzo(a)pyrene	CE087 ^U	mg/kg	0.67	0.67	7.01	3.51	3.19	2.17
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.50	0.45	5.19	2.62	2.36	1.72
Dibenz(ah)anthracene	CE087 ^M	mg/kg	0.09	0.09	1.03	0.55	0.44	0.37
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.39	0.39	4.12	2.12	1.95	1.37
PAH (total of USEPA 16)	CE087	mg/kg	8.28	7.49	86.1	40.9	34.9	28.3
TPH								
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE250	mg/kg	<1	<1	<1	2	1	2
EPH Aromatic (>EC12-EC16)	CE250	mg/kg	1	3	4	6	6	17
EPH Aromatic (>EC16-EC21)	CE250	mg/kg	3	10	13	23	20	110
EPH Aromatic (>EC21-EC35)	CE250	mg/kg	12	24	46	170	200	1116
EPH Aromatic (>EC35-EC44)	CE250	mg/kg	2	2	9	78	97	541

Chemtech Environmental Limited

SOILS

Lab number			114106-1	114106-2	114106-3	114106-4	114106-5	114106-6
Sample id			26	27	28	29	30	31
Depth (m)			-	-	-	-	-	-
Date sampled			28/09/2022	28/09/2022	28/09/2022	28/09/2022	28/09/2022	28/09/2022
Test	Method	Units						
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EPH Aliphatic (>C10-C12)	CE250	mg/kg	<6	<6	<6	<6	<6	<6
EPH Aliphatic (>C12-C16)	CE250	mg/kg	<6	<6	<6	<6	<6	<6
EPH Aliphatic (>C16-C35)	CE250	mg/kg	<15	<15	28	163	172	1418
EPH Aliphatic (>C35-C44)	CE250	mg/kg	<10	<10	<10	31	30	195
Subcontracted analysis								
Asbestos (qualitative)	\$	-	NAD	NAD	Chrysotile	NAD	NAD	NAD
Form of Asbestos	\$	-	-	-	Asbestos in Cement	-	-	-



ANALYTICAL TEST REPORT

Contract no: 114106(1)

Contract name: ABC 3500

Client reference: -

Clients name: Ashton Bennett

Clients address: 131 Huddersfield Road
Holmfirth
West Yorkshire
HD9 3TW

Samples received: 06 October 2022

Analysis started: 06 October 2022

Analysis completed: 14 October 2022

Report issued: 17 October 2022

This is a supplementary report to report number 114106 issued 14 October 2022.

Key	U	UKAS accredited test
	M	MCERTS & UKAS accredited test
	\$	Test carried out by an approved subcontractor
	I/S	Insufficient sample to carry out test
	N/S	Sample not suitable for testing
	NAD	No Asbestos Detected

Approved by:

Abbie Neasham-Bourn
Senior Reporting Administrator

Chemtech Environmental Limited

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
114106-4	29	-	Sandy Clayey Loam with Gravel & Roots	-	-	12.3
114106-5	30	-	Sandy Clayey Loam with Gravel & Roots	-	-	11.2

Chemtech Environmental Limited

SOILS

Lab number			114106-4	114106-5
Sample id			29	30
Depth (m)			-	-
Date sampled			28/09/2022	28/09/2022
Test	Method	Units		
Arsenic (total)	CE127 ^M	mg/kg As	9.5	8.2
Boron (water soluble)	CE063 ^U	mg/kg B	0.8	0.8
Cadmium (total)	CE127 ^M	mg/kg Cd	0.4	0.3
Chromium (VI)	CE146	mg/kg CrVI	<1	<1
Copper (total)	CE127 ^M	mg/kg Cu	36	33
Lead (total)	CE127 ^M	mg/kg Pb	60	57
Mercury (total)	CE127 ^M	mg/kg Hg	<0.5	<0.5
Nickel (total)	CE127 ^M	mg/kg Ni	30	26
Selenium (total)	CE127 ^M	mg/kg Se	1.1	1.0
Zinc (total)	CE127 ^M	mg/kg Zn	126	102
pH	CE004 ^M	units	7.4	8.1
Sulphate (2:1 water soluble)	CE061 ^U	mg/l SO ₄	334	386
PAH				
Naphthalene	CE087 ^M	mg/kg	0.26	0.39
Acenaphthylene	CE087 ^M	mg/kg	0.06	0.06
Acenaphthene	CE087 ^M	mg/kg	0.57	0.47
Fluorene	CE087 ^U	mg/kg	0.42	0.37
Phenanthrene	CE087 ^M	mg/kg	4.74	3.50
Anthracene	CE087 ^U	mg/kg	1.29	1.11
Fluoranthene	CE087 ^M	mg/kg	7.12	5.93
Pyrene	CE087 ^M	mg/kg	6.26	5.22
Benzo(a)anthracene	CE087 ^U	mg/kg	3.37	2.93
Chrysene	CE087 ^M	mg/kg	2.53	2.15
Benzo(b)fluoranthene	CE087 ^M	mg/kg	3.94	3.47
Benzo(k)fluoranthene	CE087 ^M	mg/kg	1.51	1.37
Benzo(a)pyrene	CE087 ^U	mg/kg	3.51	3.19
Indeno(123cd)pyrene	CE087 ^M	mg/kg	2.62	2.36
Dibenz(ah)anthracene	CE087 ^M	mg/kg	0.55	0.44
Benzo(ghi)perylene	CE087 ^M	mg/kg	2.12	1.95
PAH (total of USEPA 16)	CE087	mg/kg	40.9	34.9
TPH				
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE250	mg/kg	2	1
EPH Aromatic (>EC12-EC16)	CE250	mg/kg	6	6
EPH Aromatic (>EC16-EC21)	CE250	mg/kg	23	20
EPH Aromatic (>EC21-EC35)	CE250	mg/kg	170	200
EPH Aromatic (>EC35-EC44)	CE250	mg/kg	78	97
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1

Chemtech Environmental Limited

SOILS

Lab number			114106-4	114106-5
Sample id			29	30
Depth (m)			-	-
Date sampled			28/09/2022	28/09/2022
Test	Method	Units		
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1
EPH Aliphatic (>C10-C12)	CE250	mg/kg	<6	<6
EPH Aliphatic (>C12-C16)	CE250	mg/kg	<6	<6
EPH Aliphatic (>C16-C35)	CE250	mg/kg	163	172
EPH Aliphatic (>C35-C44)	CE250	mg/kg	31	30
Subcontracted analysis				
Asbestos (qualitative)	\$	-	NAD	NAD

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE127	Arsenic (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg As
CE063	Boron (water soluble)	Hot water extract, ICP-OES	Dry	U	0.5	mg/kg B
CE127	Cadmium (total)	Aqua regia digest, ICP-MS	Dry	M	0.2	mg/kg Cd
CE146	Chromium (VI)	Acid extraction, Colorimetry	Dry		1	mg/kg CrVI
CE127	Copper (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Cu
CE127	Lead (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Pb
CE127	Mercury (total)	Aqua regia digest, ICP-MS	Dry	M	0.5	mg/kg Hg
CE127	Nickel (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Ni
CE127	Selenium (total)	Aqua regia digest, ICP-MS	Dry	M	0.3	mg/kg Se
CE127	Zinc (total)	Aqua regia digest, ICP-MS	Dry	M	5	mg/kg Zn
CE004	pH	Based on BS 1377, pH Meter	As received	M	-	units
CE061	Sulphate (2:1 water soluble)	Aqueous extraction, ICP-OES	Dry	U	10	mg/l SO ₄
CE087	Naphthalene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Fluorene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Phenanthrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(a)anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Chrysene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(b)fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(k)fluoranthene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(a)pyrene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Indeno(123cd)pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Dibenz(ah)anthracene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(ghi)perylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	PAH (total of USEPA 16)	Solvent extraction, GC-MS	As received		0.34	mg/kg
CE067	VPH Aromatic (>EC5-EC7)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC7-EC8)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC8-EC10)	Headspace GC-FID	As received		0.01	mg/kg
CE250	EPH Aromatic (>EC10-EC12)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aromatic (>EC12-EC16)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aromatic (>EC16-EC21)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aromatic (>EC21-EC35)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aromatic (>EC35-EC44)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE067	VPH Aliphatic (>C5-C6)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C6-C8)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C8-C10)	Headspace GC-FID	As received		0.1	mg/kg
CE250	EPH Aliphatic (>C10-C12)	Solvent extraction, GCxGC-FID	As received		6	mg/kg
CE250	EPH Aliphatic (>C12-C16)	Solvent extraction, GCxGC-FID	As received		6	mg/kg
CE250	EPH Aliphatic (>C16-C35)	Solvent extraction, GCxGC-FID	As received		15	mg/kg
CE250	EPH Aliphatic (>C35-C44)	Solvent extraction, GCxGC-FID	As received		10	mg/kg

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
\$	Asbestos (qualitative)	HSG 248, Microscopy	Dry	U	-	-

Chemtech Environmental Limited

DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.

For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.

Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

N	No (not deviating sample)
Y	Yes (deviating sample)
NSD	Sampling date not provided
NST	Sampling time not provided (waters only)
EHT	Sample exceeded holding time(s)
IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
114106-4	29	-	N	
114106-5	30	-	N	

Chemtech Environmental Limited

ADDITIONAL INFORMATION

Notes

Opinions and interpretations expressed herein are outside the UKAS accreditation scope.

Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.

All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing.

Methods, procedures and performance data are available on request.

Results reported herein relate only to the material supplied to the laboratory.

This report shall not be reproduced except in full, without prior written approval.

Samples will be disposed of 4 weeks from initial receipt unless otherwise instructed.

For soils and solids, all results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.

For soils and solids, analytical results are inclusive of stones, where applicable.

Chemtech Environmental Limited

TEST REPORT REVISIONS

The table below identifies amendments that have been made to this test report for each revision.

Test Report Reference	Details of amendments to test report	Issue Date
114106	Original report issued	14 October 2022
114106(1)	Report narrowed down.	17 October 2022



ANALYTICAL TEST REPORT

Contract no: 114106(2)

Contract name: ABC 3500

Client reference: -

Clients name: Ashton Bennett

Clients address: 131 Huddersfield Road
Holmfirth
West Yorkshire
HD9 3TW

Samples received: 06 October 2022

Analysis started: 06 October 2022

Analysis completed: 14 October 2022

Report issued: 21 July 2023

This is a supplementary report to report number 114106 issued 14 October 2022.

Key	U	UKAS accredited test
	M	MCERTS & UKAS accredited test
	\$	Test carried out by an approved subcontractor
	I/S	Insufficient sample to carry out test
	N/S	Sample not suitable for testing
	NAD	No Asbestos Detected

Approved by:

Abbie Neasham-Bourn
Senior Reporting Administrator

Chemtech Environmental Limited

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
114106-1	26	-	Sandy Clayey Loam with Gravel & Roots	-	-	16.5
114106-2	27	-	Sandy Loamy Clay with Gravel & Roots	-	-	17.5

Chemtech Environmental Limited

SOILS

Lab number			114106-1	114106-2
Sample id			26	27
Depth (m)			-	-
Date sampled			28/09/2022	28/09/2022
Test	Method	Units		
Arsenic (total)	CE127 ^M	mg/kg As	9.1	8.5
Boron (water soluble)	CE063 ^U	mg/kg B	<0.5	0.5
Cadmium (total)	CE127 ^M	mg/kg Cd	0.3	0.4
Chromium (VI)	CE146	mg/kg CrVI	<1	<1
Copper (total)	CE127 ^M	mg/kg Cu	21	55
Lead (total)	CE127 ^M	mg/kg Pb	52	53
Mercury (total)	CE127 ^M	mg/kg Hg	<0.5	<0.5
Nickel (total)	CE127 ^M	mg/kg Ni	20	25
Selenium (total)	CE127 ^M	mg/kg Se	0.8	1.0
Zinc (total)	CE127 ^M	mg/kg Zn	61	86
pH	CE004 ^M	units	8.6	8.5
Sulphate (2:1 water soluble)	CE061 ^U	mg/l SO ₄	222	200
PAH				
Naphthalene	CE087 ^M	mg/kg	0.04	0.04
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	0.09	0.05
Fluorene	CE087 ^U	mg/kg	0.06	0.04
Phenanthrene	CE087 ^M	mg/kg	0.55	0.65
Anthracene	CE087 ^U	mg/kg	0.20	0.21
Fluoranthene	CE087 ^M	mg/kg	1.71	1.46
Pyrene	CE087 ^M	mg/kg	1.49	1.26
Benzo(a)anthracene	CE087 ^U	mg/kg	0.77	0.64
Chrysene	CE087 ^M	mg/kg	0.59	0.50
Benzo(b)fluoranthene	CE087 ^M	mg/kg	0.81	0.75
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.33	0.30
Benzo(a)pyrene	CE087 ^U	mg/kg	0.67	0.67
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.50	0.45
Dibenz(ah)anthracene	CE087 ^M	mg/kg	0.09	0.09
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.39	0.39
PAH (total of USEPA 16)	CE087	mg/kg	8.28	7.49
TPH				
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE250	mg/kg	<1	<1
EPH Aromatic (>EC12-EC16)	CE250	mg/kg	1	3
EPH Aromatic (>EC16-EC21)	CE250	mg/kg	3	10
EPH Aromatic (>EC21-EC35)	CE250	mg/kg	12	24
EPH Aromatic (>EC35-EC44)	CE250	mg/kg	2	2
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1

Chemtech Environmental Limited

SOILS

Lab number			114106-1	114106-2
Sample id			26	27
Depth (m)			-	-
Date sampled			28/09/2022	28/09/2022
Test	Method	Units		
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1
EPH Aliphatic (>C10-C12)	CE250	mg/kg	<6	<6
EPH Aliphatic (>C12-C16)	CE250	mg/kg	<6	<6
EPH Aliphatic (>C16-C35)	CE250	mg/kg	<15	<15
EPH Aliphatic (>C35-C44)	CE250	mg/kg	<10	<10
Subcontracted analysis				
Asbestos (qualitative)	\$	-	NAD	NAD

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE127	Arsenic (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg As
CE063	Boron (water soluble)	Hot water extract, ICP-OES	Dry	U	0.5	mg/kg B
CE127	Cadmium (total)	Aqua regia digest, ICP-MS	Dry	M	0.2	mg/kg Cd
CE146	Chromium (VI)	Acid extraction, Colorimetry	Dry		1	mg/kg CrVI
CE127	Copper (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Cu
CE127	Lead (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Pb
CE127	Mercury (total)	Aqua regia digest, ICP-MS	Dry	M	0.5	mg/kg Hg
CE127	Nickel (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Ni
CE127	Selenium (total)	Aqua regia digest, ICP-MS	Dry	M	0.3	mg/kg Se
CE127	Zinc (total)	Aqua regia digest, ICP-MS	Dry	M	5	mg/kg Zn
CE004	pH	Based on BS 1377, pH Meter	As received	M	-	units
CE061	Sulphate (2:1 water soluble)	Aqueous extraction, ICP-OES	Dry	U	10	mg/l SO ₄
CE087	Naphthalene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Fluorene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Phenanthrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(a)anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Chrysene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(b)fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(k)fluoranthene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(a)pyrene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Indeno(123cd)pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Dibenz(ah)anthracene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(ghi)perylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	PAH (total of USEPA 16)	Solvent extraction, GC-MS	As received		0.34	mg/kg
CE067	VPH Aromatic (>EC5-EC7)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC7-EC8)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC8-EC10)	Headspace GC-FID	As received		0.01	mg/kg
CE250	EPH Aromatic (>EC10-EC12)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aromatic (>EC12-EC16)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aromatic (>EC16-EC21)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aromatic (>EC21-EC35)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aromatic (>EC35-EC44)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE067	VPH Aliphatic (>C5-C6)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C6-C8)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C8-C10)	Headspace GC-FID	As received		0.1	mg/kg
CE250	EPH Aliphatic (>C10-C12)	Solvent extraction, GCxGC-FID	As received		6	mg/kg
CE250	EPH Aliphatic (>C12-C16)	Solvent extraction, GCxGC-FID	As received		6	mg/kg
CE250	EPH Aliphatic (>C16-C35)	Solvent extraction, GCxGC-FID	As received		15	mg/kg
CE250	EPH Aliphatic (>C35-C44)	Solvent extraction, GCxGC-FID	As received		10	mg/kg

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
\$	Asbestos (qualitative)	HSG 248, Microscopy	Dry	U	-	-

Chemtech Environmental Limited

ADDITIONAL INFORMATION

Notes

Opinions and interpretations expressed herein are outside the UKAS accreditation scope.

Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.

All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing.

Methods, procedures and performance data are available on request.

Results reported herein relate only to the material supplied to the laboratory.

This report shall not be reproduced except in full, without prior written approval.

Samples will be disposed of 4 weeks from initial receipt unless otherwise instructed.

For soils and solids, all results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.

For soils and solids, analytical results are inclusive of stones, where applicable.

Chemtech Environmental Limited

TEST REPORT REVISIONS

The table below identifies amendments that have been made to this test report for each revision.

Test Report Reference	Details of amendments to test report	Issue Date
114106	Original report issued	14 October 2022
114106(1)	Report narrowed down.	17 October 2022
114106(2)	Samples 26&27 only	21 July 2023



ANALYTICAL TEST REPORT

Contract no: 116012A

Contract name: Midlothian

Client reference: 3500

Clients name: Ashton Bennett

Clients address: 131 Huddersfield Road
Holmfirth
West Yorkshire
HD9 3TW

Samples received: 18 November 2022

Analysis started: 18 November 2022

Analysis completed: 23 November 2022

Report issued: 23 November 2022

Key

U	UKAS accredited test
M	MCERTS & UKAS accredited test
\$	Test carried out by an approved subcontractor
I/S	Insufficient sample to carry out test
N/S	Sample not suitable for testing
NAD	No Asbestos Detected

Approved by:

Abbie Neasham-Bourn
Senior Reporting Administrator

Chemtech Environmental Limited

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
116012-1	Plot 28	0.60	Loamy Clay with Roots	-	-	19.9
116012-2	Plot 31	0.60	Sandy Clayey Loam	-	-	19.4
116012-3	Plot 37	0.60	Sandy Clayey Loam	-	-	18.5

Chemtech Environmental Limited

SOILS

Lab number			116012-1	116012-2	116012-3
Sample id			Plot28	Plot 31	Plot 37
Depth (m)			0.60	0.60	0.60
Date sampled			16/11/2022	16/11/2022	16/11/2022
Test	Method	Units			
Arsenic (total)	CE127 ^M	mg/kg As	15	12	11
Boron (water soluble)	CE063 ^U	mg/kg B	0.8	<0.5	<0.5
Cadmium (total)	CE127 ^M	mg/kg Cd	0.5	0.3	0.2
Chromium (VI)	CE146	mg/kg CrVI	<1	<1	<1
Copper (total)	CE127 ^M	mg/kg Cu	51	30	26
Lead (total)	CE127 ^M	mg/kg Pb	145	74	67
Mercury (total)	CE127 ^M	mg/kg Hg	<0.5	<0.5	<0.5
Nickel (total)	CE127 ^M	mg/kg Ni	26	14	14
Selenium (total)	CE127 ^M	mg/kg Se	1.3	1.1	1.0
Zinc (total)	CE127 ^M	mg/kg Zn	141.8	79.1	69.7
pH	CE004 ^M	units	8.1	7.9	7.7
Sulphate (2:1 water soluble)	CE061 ^U	mg/l SO ₄	116	41	45
PAH					
Naphthalene	CE087 ^M	mg/kg	0.09	0.04	0.28
Acenaphthylene	CE087 ^M	mg/kg	0.03	0.04	0.05
Acenaphthene	CE087 ^M	mg/kg	0.11	0.05	0.32
Fluorene	CE087 ^U	mg/kg	0.09	0.04	0.27
Phenanthrene	CE087 ^M	mg/kg	1.13	0.54	2.14
Anthracene	CE087 ^U	mg/kg	0.36	0.14	0.35
Fluoranthene	CE087 ^M	mg/kg	1.88	1.02	2.26
Pyrene	CE087 ^M	mg/kg	1.67	0.94	1.98
Benzo(a)anthracene	CE087 ^U	mg/kg	0.91	0.52	0.93
Chrysene	CE087 ^M	mg/kg	0.98	0.60	0.88
Benzo(b)fluoranthene	CE087 ^M	mg/kg	1.19	0.84	1.31
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.42	0.29	0.46
Benzo(a)pyrene	CE087 ^U	mg/kg	0.78	0.53	0.85
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.73	0.49	0.80
Dibenz(ah)anthracene	CE087 ^M	mg/kg	0.14	0.09	0.15
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.58	0.39	0.62
PAH (total of USEPA 16)	CE087	mg/kg	11.1	6.56	13.7
TPH					
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	<0.01	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE250	mg/kg	<10	<10	<10
EPH Aromatic (>EC12-EC16)	CE250	mg/kg	<10	<10	16
EPH Aromatic (>EC16-EC21)	CE250	mg/kg	<1	<1	12
EPH Aromatic (>EC21-EC35)	CE250	mg/kg	<1	11	70
EPH Aromatic (>EC35-EC44)	CE250	mg/kg	<1	<1	12
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1	<0.1

Chemtech Environmental Limited

SOILS

Lab number			116012-1	116012-2	116012-3
Sample id			Plot28	Plot 31	Plot 37
Depth (m)			0.60	0.60	0.60
Date sampled			16/11/2022	16/11/2022	16/11/2022
Test	Method	Units			
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1	<0.1
EPH Aliphatic (>C10-C12)	CE250	mg/kg	<6	<6	<6
EPH Aliphatic (>C12-C16)	CE250	mg/kg	<6	<6	<6
EPH Aliphatic (>C16-C35)	CE250	mg/kg	<15	<15	<15
EPH Aliphatic (>C35-C44)	CE250	mg/kg	<10	<10	<10
Subcontracted analysis					
Asbestos (qualitative)	\$	-	NAD	NAD	NAD

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE127	Arsenic (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg As
CE063	Boron (water soluble)	Hot water extract, ICP-OES	Dry	U	0.5	mg/kg B
CE127	Cadmium (total)	Aqua regia digest, ICP-MS	Dry	M	0.2	mg/kg Cd
CE146	Chromium (VI)	Acid extraction, Colorimetry	Dry		1	mg/kg CrVI
CE127	Copper (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Cu
CE127	Lead (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Pb
CE127	Mercury (total)	Aqua regia digest, ICP-MS	Dry	M	0.5	mg/kg Hg
CE127	Nickel (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Ni
CE127	Selenium (total)	Aqua regia digest, ICP-MS	Dry	M	0.3	mg/kg Se
CE127	Zinc (total)	Aqua regia digest, ICP-MS	Dry	M	5	mg/kg Zn
CE004	pH	Based on BS 1377, pH Meter	As received	M	-	units
CE061	Sulphate (2:1 water soluble)	Aqueous extraction, ICP-OES	Dry	U	10	mg/l SO ₄
CE087	Naphthalene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Fluorene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Phenanthrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(a)anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Chrysene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(b)fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(k)fluoranthene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(a)pyrene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Indeno(123cd)pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Dibenz(ah)anthracene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(ghi)perylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	PAH (total of USEPA 16)	Solvent extraction, GC-MS	As received		0.34	mg/kg
CE067	VPH Aromatic (>EC5-EC7)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC7-EC8)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC8-EC10)	Headspace GC-FID	As received		0.01	mg/kg
CE250	EPH Aromatic (>EC10-EC12)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aromatic (>EC12-EC16)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aromatic (>EC16-EC21)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aromatic (>EC21-EC35)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aromatic (>EC35-EC44)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE067	VPH Aliphatic (>C5-C6)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C6-C8)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C8-C10)	Headspace GC-FID	As received		0.1	mg/kg
CE250	EPH Aliphatic (>C10-C12)	Solvent extraction, GCxGC-FID	As received		6	mg/kg
CE250	EPH Aliphatic (>C12-C16)	Solvent extraction, GCxGC-FID	As received		6	mg/kg
CE250	EPH Aliphatic (>C16-C35)	Solvent extraction, GCxGC-FID	As received		15	mg/kg
CE250	EPH Aliphatic (>C35-C44)	Solvent extraction, GCxGC-FID	As received		10	mg/kg

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
\$	Asbestos (qualitative)	HSG 248, Microscopy	Dry	U	-	-

Chemtech Environmental Limited

DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.

For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.

Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

N	No (not deviating sample)
Y	Yes (deviating sample)
NSD	Sampling date not provided
NST	Sampling time not provided (waters only)
EHT	Sample exceeded holding time(s)
IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
116012-1	Plot 28	0.60	N	
116012-2	Plot 31	0.60	N	
116012-3	Plot 37	0.60	N	

Chemtech Environmental Limited

ADDITIONAL INFORMATION

Notes

Opinions and interpretations expressed herein are outside the UKAS accreditation scope.

Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.

All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing.

Methods, procedures and performance data are available on request.

Results reported herein relate only to the material supplied to the laboratory.

This report shall not be reproduced except in full, without prior written approval.

Samples will be disposed of 4 weeks from initial receipt unless otherwise instructed.

For soils and solids, all results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.

For soils and solids, analytical results are inclusive of stones, where applicable.

Chemtech Environmental Limited

TEST REPORT REVISIONS

The table below identifies amendments that have been made to this test report for each revision.

Test Report Reference	Details of amendments to test report	Issue Date
116012	Original report issued	23 November 2022
116012A	Report Split	25 November 2022



ANALYTICAL TEST REPORT

Contract no: 122055

Contract name: Frances Bennett

Client reference: 3500

Clients name: Ashton Bennett

Clients address: 131 Huddersfield Road
Holmfirth
West Yorkshire
HD9 3TW

Samples received: 25 April 2023

Analysis started: 25 April 2023

Analysis completed: 03 May 2023

Report issued: 03 May 2023

Key

U	UKAS accredited test
M	MCERTS & UKAS accredited test
\$	Test carried out by an approved subcontractor
I/S	Insufficient sample to carry out test
N/S	Sample not suitable for testing
NAD	No Asbestos Detected

Approved by:

Samantha Rogerson
Reporting Manager

Chemtech Environmental Limited

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
122055-1	P32	-	Sandy Clay with Gravel & Roots	-	-	26.4
122055-2	P33	-	Sandy Clay with Gravel & Roots	-	-	26.5
122055-3	P34	-	Sandy Clayey Loam with Gravel & Roots	-	-	26.9
122055-4	P35	-	Sandy Clayey Loam with Gravel & Roots	-	-	23.0
122055-5	P36	-	Sandy Clayey Loam with Gravel & Roots	-	-	22.6

Chemtech Environmental Limited

SOILS

Lab number			122055-1	122055-2	122055-3	122055-4	122055-5
Sample id			P32	P33	P34	P35	P36
Depth (m)			-	-	-	-	-
Date sampled			-	-	-	-	-
Test	Method	Units					
Boron (water soluble)	CE063 ^U	mg/kg B	0.9	0.7	0.8	0.8	0.7
Chromium (VI)	CE146	mg/kg CrVI	<1	<1	<1	<1	<1
Arsenic	\$ ^M	mg/kg	25	25	27	25	21
Cadmium	\$ ^M	mg/kg	0.7	0.9	0.8	0.7	0.5
Copper	\$ ^M	mg/kg	93	88	104	90	73
Lead	\$ ^M	mg/kg	363	234	300	225	199
Mercury	\$ ^M	mg/kg	1.6	2.3	1.1	1.7	2.3
Nickel	\$ ^M	mg/kg	30	29	33	33	25
Selenium	\$ ^M	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	\$ ^M	mg/kg	213	207	237	207	162
pH	CE004 ^M	units	7.7	7.6	7.7	7.8	7.6
Sulphate (2:1 water soluble)	CE061 ^U	mg/l SO ₄	66	41	63	82	57
PAH							
Naphthalene	CE087 ^M	mg/kg	0.10	0.22	0.19	0.38	0.80
Acenaphthylene	CE087 ^M	mg/kg	0.04	0.08	0.09	0.04	0.11
Acenaphthene	CE087 ^M	mg/kg	0.24	0.29	0.39	0.42	0.48
Fluorene	CE087 ^U	mg/kg	0.18	0.23	0.28	0.36	0.37
Phenanthrene	CE087 ^M	mg/kg	2.01	2.36	3.66	3.40	4.18
Anthracene	CE087 ^U	mg/kg	0.54	0.61	0.94	0.85	1.12
Fluoranthene	CE087 ^M	mg/kg	3.32	4.30	7.16	5.09	7.14
Pyrene	CE087 ^M	mg/kg	2.97	3.83	6.41	4.44	6.28
Benzo(a)anthracene	CE087 ^U	mg/kg	1.48	2.11	3.08	2.17	3.29
Chrysene	CE087 ^M	mg/kg	1.60	2.24	3.61	2.33	3.74
Benzo(b)fluoranthene	CE087 ^M	mg/kg	1.76	2.52	4.12	2.50	4.17
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.72	1.10	1.56	0.94	1.61
Benzo(a)pyrene	CE087 ^U	mg/kg	1.59	2.26	3.73	2.33	3.65
Indeno(123cd)pyrene	CE087 ^M	mg/kg	1.28	1.79	3.14	1.79	3.24
Dibenz(ah)anthracene	CE087 ^M	mg/kg	0.27	0.37	0.68	0.40	0.73
Benzo(ghi)perylene	CE087 ^M	mg/kg	1.14	1.54	2.75	1.56	2.85
PAH (total of USEPA 16)	CE087	mg/kg	19.2	25.8	41.8	29.0	43.8
TPH							
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE250	mg/kg	<10	<10	<10	<10	<10
EPH Aromatic (>EC12-EC16)	CE250	mg/kg	<10	12	<10	<10	<10
EPH Aromatic (>EC16-EC21)	CE250	mg/kg	27	32	73	44	46
EPH Aromatic (>EC21-EC35)	CE250	mg/kg	103	146	294	206	281
EPH Aromatic (>EC35-EC44)	CE250	mg/kg	31	52	121	85	115

Chemtech Environmental Limited

SOILS

Lab number			122055-1	122055-2	122055-3	122055-4	122055-5
Sample id			P32	P33	P34	P35	P36
Depth (m)			-	-	-	-	-
Date sampled			-	-	-	-	-
Test	Method	Units					
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
EPH Aliphatic (>C10-C12)	CE250	mg/kg	<6	<6	<6	<6	<6
EPH Aliphatic (>C12-C16)	CE250	mg/kg	<6	6	7	6	7
EPH Aliphatic (>C16-C35)	CE250	mg/kg	53	137	212	148	197
EPH Aliphatic (>C35-C44)	CE250	mg/kg	<10	27	34	24	34
Subcontracted analysis							
Asbestos (qualitative)	\$	-	NAD	NAD	NAD	NAD	NAD

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE063	Boron (water soluble)	Hot water extract, ICP-OES	Dry	U	0.5	mg/kg B
CE146	Chromium (VI)	Acid extraction, Colorimetry	Dry		1	mg/kg CrVI
\$ ^M	Arsenic	Aqua regia digest, ICP-MS	Dry	M	0.5	mg/kg
\$ ^M	Cadmium	Aqua regia digest, ICP-MS	Dry	M	0.2	mg/kg
\$ ^M	Copper	Aqua regia digest, ICP-MS	Dry	M	4	mg/kg
\$ ^M	Lead	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg
\$ ^M	Mercury	Aqua regia digest, ICP-MS	Dry	M	0.1	mg/kg
\$ ^M	Nickel	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg
\$ ^M	Selenium	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg
\$ ^M	Zinc	Aqua regia digest, ICP-MS	Dry	M	4.5	mg/kg
CE004	pH	Based on BS 1377, pH Meter	As received	M	-	units
CE061	Sulphate (2:1 water soluble)	Aqueous extraction, ICP-OES	Dry	U	10	mg/l SO ₄
CE087	Naphthalene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Fluorene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Phenanthrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(a)anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Chrysene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(b)fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(k)fluoranthene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(a)pyrene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Indeno(123cd)pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Dibenz(ah)anthracene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(ghi)perylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	PAH (total of USEPA 16)	Solvent extraction, GC-MS	As received		0.34	mg/kg
CE067	VPH Aromatic (>EC5-EC7)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC7-EC8)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC8-EC10)	Headspace GC-FID	As received		0.01	mg/kg
CE250	EPH Aromatic (>EC10-EC12)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aromatic (>EC12-EC16)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aromatic (>EC16-EC21)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aromatic (>EC21-EC35)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aromatic (>EC35-EC44)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE067	VPH Aliphatic (>C5-C6)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C6-C8)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C8-C10)	Headspace GC-FID	As received		0.1	mg/kg
CE250	EPH Aliphatic (>C10-C12)	Solvent extraction, GCxGC-FID	As received		6	mg/kg

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE250	EPH Aliphatic (>C12-C16)	Solvent extraction, GCxGC-FID	As received		6	mg/kg
CE250	EPH Aliphatic (>C16-C35)	Solvent extraction, GCxGC-FID	As received		15	mg/kg
CE250	EPH Aliphatic (>C35-C44)	Solvent extraction, GCxGC-FID	As received		10	mg/kg
\$	Asbestos (qualitative)	HSG 248, Microscopy	Dry	U	-	-

Chemtech Environmental Limited

DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.

For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.

Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

N	No (not deviating sample)
Y	Yes (deviating sample)
NSD	Sampling date not provided
NST	Sampling time not provided (waters only)
EHT	Sample exceeded holding time(s)
IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
122055-1	P32	-	N	
122055-2	P33	-	N	
122055-3	P34	-	N	
122055-4	P35	-	N	
122055-5	P36	-	N	

Chemtech Environmental Limited

ADDITIONAL INFORMATION

Notes

Opinions and interpretations expressed herein are outside the UKAS accreditation scope.

Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.

All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing.

Methods, procedures and performance data are available on request.

Results reported herein relate only to the material supplied to the laboratory.

This report shall not be reproduced except in full, without prior written approval.

Samples will be disposed of 4 weeks from initial receipt unless otherwise instructed.

For soils and solids, all results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.

For soils and solids, analytical results are inclusive of stones, where applicable.

Moisture Content Calculated on a Wet Weight basis



ANALYTICAL TEST REPORT

Contract no: 127767

Contract name: Woodland Housing Development

Client reference: -

Clients name: Ashton Bennett

Clients address: 131 Huddersfield Road
Holmfirth
West Yorkshire
HD9 3TW

Samples received: 25 October 2023

Analysis started: 25 October 2023

Analysis completed: 02 November 2023

Report issued: 02 November 2023

Key

U	UKAS accredited test
M	MCERTS & UKAS accredited test
\$	Test carried out by an approved subcontractor
I/S	Insufficient sample to carry out test
N/S	Sample not suitable for testing
NAD	No Asbestos Detected

Approved by:

Ellis McCulloch
Senior Reporting Administrator

Chemtech Environmental Limited

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
127767-1	Plot 32 G1	-	Sandy Clayey Loam with Gravel & Roots	-	-	27.2
127767-2	Plot 32 G2	-	Clayey Loam with Gravel & Roots	-	-	26.4
127767-3	Plot 32 T1	-	Loamy Clay with Gravel & Roots	-	-	33.9
127767-4	Plot 33 T1	-	Loamy Clay with Gravel & Roots	-	-	31.2
127767-5	Plot 34 T1	-	Loamy Clay with Gravel & Roots	-	-	33.9
127767-6	Plot 34 T2	-	Loamy Clay with Gravel & Roots	-	-	32.6
127767-7	Plot 34 T3	-	Loamy Clay with Gravel & Roots	-	-	33.5
127767-8	Plot 35 T1	-	Loamy Clay with Gravel & Roots	-	-	32.9
127767-9	Plot 35 T2	-	Loamy Clay with Gravel & Roots	-	-	31.2
127767-10	Plot 35 T3	-	Loamy Clay with Gravel & Roots	-	-	30.7

Chemtech Environmental Limited

SOILS

Lab number			127767-1	127767-2	127767-3	127767-4	127767-5	127767-6
Sample id			Plot 32 G1	Plot 32 G2	Plot 32 T1	Plot 33 T1	Plot 34 T1	Plot 34 T2
Depth (m)			-	-	-	-	-	-
Date sampled			24/10/2023	24/10/2023	24/10/2023	24/10/2023	24/10/2023	24/10/2023
Test	Method	Units						
Arsenic (total)	CE264 ^M	mg/kg As	7.7	24.9	27.3	25.9	30.0	34.8
Boron (water soluble)	CE063 ^U	mg/kg B	1.6	0.6	0.6	1.0	0.8	2.3
Cadmium (total)	CE264 ^M	mg/kg Cd	<2	<2	<2	<2	<2	<2
Chromium (VI)	CE263	mg/kg CrVI	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Copper (total)	CE264 ^M	mg/kg Cu	36.6	38.2	39.7	39.4	42.1	49.6
Lead (total)	CE264 ^U	mg/kg Pb	48.5	72.4	71.4	66.0	75.5	353.0
Mercury (total)	CE264 ^U	mg/kg Hg	<2	<2	<2	<2	<2	<2
Nickel (total)	CE264 ^M	mg/kg Ni	7.6	18.3	20.4	20.0	20.7	26.1
Selenium (total)	CE264	mg/kg Se	<3	<3	<3	<3	<3	<3
Zinc (total)	CE264 ^M	mg/kg Zn	100.4	85.0	89.2	86.0	95.1	118.1
pH	CE004 ^M	units	7.3	7.2	7.3	7.3	7.1	6.8
Sulphate (2:1 water soluble)	CE061 ^U	mg/l SO ₄	649	171	50	45	115	90
PAH								
Naphthalene	CE087 ^M	mg/kg	0.15	0.03	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	0.05
Acenaphthene	CE087 ^M	mg/kg	0.20	0.03	<0.02	<0.02	<0.02	0.03
Fluorene	CE087 ^U	mg/kg	0.12	<0.02	<0.02	<0.02	<0.02	0.04
Phenanthrene	CE087 ^M	mg/kg	1.46	0.19	0.05	0.06	0.20	0.81
Anthracene	CE087 ^U	mg/kg	0.51	0.07	<0.02	<0.02	0.06	0.26
Fluoranthene	CE087 ^M	mg/kg	2.09	0.32	0.08	0.11	0.34	0.81
Pyrene	CE087 ^M	mg/kg	1.84	0.29	0.07	0.09	0.29	0.66
Benzo(a)anthracene	CE087 ^U	mg/kg	0.97	0.17	0.05	0.08	0.17	0.30
Chrysene	CE087 ^M	mg/kg	1.07	0.21	0.06	0.07	0.19	0.30
Benzo(b)fluoranthene	CE087 ^M	mg/kg	0.96	0.19	0.04	0.07	0.13	0.24
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.42	0.10	<0.03	0.04	0.10	0.10
Benzo(a)pyrene	CE087 ^U	mg/kg	0.91	0.18	0.05	0.06	0.16	0.22
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.55	0.14	0.03	0.04	0.09	0.13
Dibenz(ah)anthracene	CE087 ^M	mg/kg	0.13	0.02	<0.02	<0.02	<0.02	0.03
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.53	0.14	0.03	0.05	0.10	0.12
PAH (total of USEPA 16)	CE087	mg/kg	11.9	2.09	0.45	0.67	1.84	4.08
TPH								
VPH Aromatic (>EC5-EC7)	\$	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VPH Aromatic (>EC7-EC8)	\$	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VPH Aromatic (>EC8-EC10)	\$	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EPH Aromatic (>EC10-EC12)	CE250	mg/kg	2	6	<0.5	<0.5	<0.5	<0.5
EPH Aromatic (>EC12-EC16)	CE250	mg/kg	7	25	1	2	<1	<1
EPH Aromatic (>EC16-EC21)	CE250	mg/kg	20	18	<2	4	<2	<2
EPH Aromatic (>EC21-EC35)	CE250	mg/kg	57	45	8	15	<5	<5
EPH Aromatic (>EC35-EC44)	CE250	mg/kg	21	14	6	5	2	<1.5
VPH Aliphatic (>C5-C6)	\$	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
VPH Aliphatic (>C6-C8)	\$	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Chemtech Environmental Limited

SOILS

Lab number			127767-1	127767-2	127767-3	127767-4	127767-5	127767-6
Sample id			Plot 32 G1	Plot 32 G2	Plot 32 T1	Plot 33 T1	Plot 34 T1	Plot 34 T2
Depth (m)			-	-	-	-	-	-
Date sampled			24/10/2023	24/10/2023	24/10/2023	24/10/2023	24/10/2023	24/10/2023
Test	Method	Units						
VPH Aliphatic (>C8-C10)	\$	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
EPH Aliphatic (>C10-C12)	CE250	mg/kg	<0.5	3	<0.5	<0.5	<0.5	<0.5
EPH Aliphatic (>C12-C16)	CE250	mg/kg	<0.5	10	<0.5	1	<0.5	<0.5
EPH Aliphatic (>C16-C35)	CE250	mg/kg	21	38	8	5	10	<4.5
EPH Aliphatic (>C35-C44)	CE250	mg/kg	2	2	<1	<1	<1	<1
Subcontracted Analysis								
Asbestos (qualitative)	\$	-	NAD	NAD	NAD	NAD	NAD	NAD

Chemtech Environmental Limited

SOILS

Lab number			127767-7	127767-8	127767-9	127767-10
Sample id			Plot 34 T3	Plot 35 T1	Plot 35 T2	Plot 35 T3
Depth (m)			-	-	-	-
Date sampled			24/10/2023	24/10/2023	24/10/2023	24/10/2023
Test	Method	Units				
Arsenic (total)	CE264 ^M	mg/kg As	25.2	25.9	36.6	27.8
Boron (water soluble)	CE063 ^U	mg/kg B	0.9	0.9	0.9	0.9
Cadmium (total)	CE264 ^M	mg/kg Cd	<2	<2	<2	<2
Chromium (VI)	CE263	mg/kg CrVI	<0.04	<0.04	<0.04	<0.04
Copper (total)	CE264 ^M	mg/kg Cu	36.1	40.4	52.0	40.1
Lead (total)	CE264 ^U	mg/kg Pb	90.5	70.0	91.3	71.6
Mercury (total)	CE264 ^U	mg/kg Hg	<2	<2	<2	<2
Nickel (total)	CE264 ^M	mg/kg Ni	18.4	20.3	24.5	19.5
Selenium (total)	CE264	mg/kg Se	<3	<3	<3	<3
Zinc (total)	CE264 ^M	mg/kg Zn	81.8	90.1	112.1	88.2
pH	CE004 ^M	units	7.0	6.8	6.9	6.8
Sulphate (2:1 water soluble)	CE061 ^U	mg/l SO ₄	80	65	66	56
PAH						
Naphthalene	CE087 ^M	mg/kg	0.04	0.05	<0.02	0.08
Acenaphthylene	CE087 ^M	mg/kg	<0.02	0.04	<0.02	0.06
Acenaphthene	CE087 ^M	mg/kg	0.06	0.10	<0.02	0.16
Fluorene	CE087 ^U	mg/kg	0.06	0.11	<0.02	0.15
Phenanthrene	CE087 ^M	mg/kg	0.88	1.08	0.08	0.44
Anthracene	CE087 ^U	mg/kg	0.26	0.43	0.03	0.21
Fluoranthene	CE087 ^M	mg/kg	0.91	1.23	0.14	0.53
Pyrene	CE087 ^M	mg/kg	0.76	1.05	0.12	0.46
Benzo(a)anthracene	CE087 ^U	mg/kg	0.39	0.54	0.09	0.30
Chrysene	CE087 ^M	mg/kg	0.38	0.49	0.08	0.30
Benzo(b)fluoranthene	CE087 ^M	mg/kg	0.36	0.43	0.07	0.28
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.19	0.24	0.04	0.19
Benzo(a)pyrene	CE087 ^U	mg/kg	0.40	0.48	0.07	0.28
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.18	0.21	0.04	0.21
Dibenz(ah)anthracene	CE087 ^M	mg/kg	0.05	0.06	<0.02	0.11
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.18	0.23	0.05	0.20
PAH (total of USEPA 16)	CE087	mg/kg	5.11	6.75	0.81	3.96
TPH						
VPH Aromatic (>EC5-EC7)	\$	mg/kg	<0.05	<0.05	<0.05	<0.05
VPH Aromatic (>EC7-EC8)	\$	mg/kg	<0.05	<0.05	<0.05	<0.05
VPH Aromatic (>EC8-EC10)	\$	mg/kg	<0.05	<0.05	<0.05	<0.05
EPH Aromatic (>EC10-EC12)	CE250	mg/kg	<0.5	<0.5	<0.5	<0.5
EPH Aromatic (>EC12-EC16)	CE250	mg/kg	<1	<1	<1	<1
EPH Aromatic (>EC16-EC21)	CE250	mg/kg	<2	<2	<2	<2
EPH Aromatic (>EC21-EC35)	CE250	mg/kg	<5	<5	<5	<5
EPH Aromatic (>EC35-EC44)	CE250	mg/kg	<1.5	<1.5	<1.5	<1.5
VPH Aliphatic (>C5-C6)	\$	mg/kg	<0.05	<0.05	<0.05	<0.05
VPH Aliphatic (>C6-C8)	\$	mg/kg	<0.1	<0.1	<0.1	<0.1

Chemtech Environmental Limited

SOILS

Lab number			127767-7	127767-8	127767-9	127767-10
Sample id			Plot 34 T3	Plot 35 T1	Plot 35 T2	Plot 35 T3
Depth (m)			-	-	-	-
Date sampled			24/10/2023	24/10/2023	24/10/2023	24/10/2023
Test	Method	Units				
VPH Aliphatic (>C8-C10)	\$	mg/kg	<0.05	<0.05	<0.05	<0.05
EPH Aliphatic (>C10-C12)	CE250	mg/kg	1	<0.5	<0.5	<0.5
EPH Aliphatic (>C12-C16)	CE250	mg/kg	1	<0.5	<0.5	<0.5
EPH Aliphatic (>C16-C35)	CE250	mg/kg	<4.5	<4.5	<4.5	<4.5
EPH Aliphatic (>C35-C44)	CE250	mg/kg	<1	<1	<1	<1
Subcontracted Analysis						
Asbestos (qualitative)	\$	-	NAD	NAD	NAD	NAD

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE264	Arsenic (total)	Aqua Regia Extraction, ICPOES	Dry	M	3	mg/kg As
CE063	Boron (water soluble)	Hot water extract, ICP-OES	Dry	U	1	mg/kg B
CE264	Cadmium (total)	Aqua Regia Extraction, ICPOES	Dry	M	2	mg/kg Cd
CE263	Chromium (VI)	Discrete Analyser	Dry			mg/kg CrVI
CE146	Chromium (VI)	Acid extraction, Colorimetry	Dry		1	mg/kg CrVI
CE264	Copper (total)	Aqua Regia Extraction, ICPOES	Dry	M	2	mg/kg Cu
CE264	Lead (total)	Aqua Regia Extraction, ICPOES	Dry	U	3	mg/kg Pb
CE264	Mercury (total)	Aqua Regia Extraction, ICPOES	Dry	U	2	mg/kg Hg
CE264	Nickel (total)	Aqua Regia Extraction, ICPOES	Dry	M	3	mg/kg Ni
CE264	Selenium (total)	Aqua Regia Extraction, ICPOES	Dry	U	3	mg/kg Se
CE264	Zinc (total)	Aqua Regia Extraction, ICPOES	Dry	M	4	mg/kg Zn
CE004	pH	Based on BS 1377, pH Meter	As received	M	-	units
CE061	Sulphate (2:1 water soluble)	Aqueous extraction, ICP-OES	Dry	U	10	mg/l SO ₄
CE087	Naphthalene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Fluorene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Phenanthrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(a)anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Chrysene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(b)fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(k)fluoranthene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(a)pyrene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Indeno(123cd)pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Dibenz(ah)anthracene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(ghi)perylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	PAH (total of USEPA 16)	Solvent extraction, GC-MS	As received		0.34	mg/kg
\$	VPH Aromatic (>EC5-EC7)	Headspace GC-FID	As received		0.05	mg/kg
\$	VPH Aromatic (>EC7-EC8)	Headspace GC-FID	As received		0.05	mg/kg
\$	VPH Aromatic (>EC8-EC10)	Headspace GC-FID	As received		0.05	mg/kg
CE250	EPH Aromatic (>EC10-EC12)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aromatic (>EC12-EC16)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aromatic (>EC16-EC21)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aromatic (>EC21-EC35)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aromatic (>EC35-EC44)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
\$	VPH Aliphatic (>C5-C6)	Headspace GC-FID	As received		0.05	mg/kg
\$	VPH Aliphatic (>C6-C8)	Headspace GC-FID	As received		0.1	mg/kg
\$	VPH Aliphatic (>C8-C10)	Headspace GC-FID	As received		0.05	mg/kg
CE250	EPH Aliphatic (>C10-C12)	Solvent extraction, GCxGC-FID	As received		6	mg/kg
CE250	EPH Aliphatic (>C12-C16)	Solvent extraction, GCxGC-FID	As received		6	mg/kg
CE250	EPH Aliphatic (>C16-C35)	Solvent extraction, GCxGC-FID	As received		15	mg/kg

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE250	EPH Aliphatic (>C35-C44)	Solvent extraction, GCxGC-FID	As received		10	mg/kg
\$	Asbestos (qualitative)	HSG 248, Microscopy	Dry	U	-	-

Chemtech Environmental Limited

DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.

For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.

Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

N	No (not deviating sample)
Y	Yes (deviating sample)
NSD	Sampling date not provided
NST	Sampling time not provided (waters only)
EHT	Sample exceeded holding time(s)
IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
127767-1	Plot 32 G1	-	N	
127767-2	Plot 32 G2	-	N	
127767-3	Plot 32 T1	-	N	
127767-4	Plot 33 T1	-	N	
127767-5	Plot 34 T1	-	N	
127767-6	Plot 34 T2	-	N	
127767-7	Plot 34 T3	-	N	
127767-8	Plot 35 T1	-	N	
127767-9	Plot 35 T2	-	N	
127767-10	Plot 35 T3	-	N	

Chemtech Environmental Limited

ADDITIONAL INFORMATION

Notes

Opinions and interpretations expressed herein are outside the UKAS accreditation scope.

Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.

All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing.

Methods, procedures and performance data are available on request.

Results reported herein relate only to the material supplied to the laboratory.

This report shall not be reproduced except in full, without prior written approval.

Samples will be disposed of 4 weeks from initial receipt unless otherwise instructed.

DEFRA Licence for the introduction and movement within England of prohibited soil for chemical and physical analysis Licence No: 132693/469907-0

For soils and solids, all results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.

For soils and solids, analytical results are inclusive of stones, where applicable.

Moisture Content Calculated on a Wet Weight basis



ANALYTICAL TEST REPORT

Contract no: 132762

Contract name: Tristan Bennett

Client reference: 3500

Clients name: Ashton Bennett

Clients address: 131 Huddersfield Road
Holmfirth
West Yorkshire
HD9 3TW

Samples received: 30 April 2024

Analysis started: 30 April 2024

Analysis completed: 10 May 2024

Report issued: 10 May 2024

Key

U	UKAS accredited test
M	MCERTS & UKAS accredited test
\$	Test carried out by an approved subcontractor
I/S	Insufficient sample to carry out test
N/S	Sample not suitable for testing
NAD	No Asbestos Detected

Approved by:

Abbie Neasham-Bourn
Senior Reporting Administrator

Chemtech Environmental Limited

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
132762-1	G38	0.40	Loamy Clay with Roots	-	-	22.4
132762-2	G39	1.40	Loamy Clay with Roots	-	-	24.9
132762-3	G40	2.40	Loamy Clay with Roots	-	-	23.7
132762-4	G41	3.40	Loamy Clay with Roots	-	-	23.2
132762-5	G42	4.40	Loamy Clay with Roots	-	-	23.9
132762-6	G43	5.40	Loamy Clay with Roots	-	-	21.1
132762-7	G44	6.40	Loamy Clay with Roots	-	-	22.6
132762-8	G45	7.40	Loamy Clay with Roots	-	-	21.3

Chemtech Environmental Limited

SOILS

Lab number			132762-1	132762-2	132762-3	132762-4	132762-5	132762-6
Sample id			G38	G39	G40	G41	G42	G43
Depth (m)			0.40	1.40	2.40	3.40	4.40	5.40
Date sampled			26/04/2024	26/04/2024	26/04/2024	26/04/2024	26/04/2024	26/04/2024
Test	Method	Units						
Moisture Content	CE001	% w/w	22.4	24.9	23.7	23.2	23.9	21.1
Arsenic (total)	CE264 ^M	mg/kg As	24.2	22.7	23.6	28.9	29.1	26.0
Boron (water soluble)	CE063 ^U	mg/kg B	0.6	<0.5	<0.5	<0.5	<0.5	<0.5
Cadmium (total)	CE264 ^M	mg/kg Cd	2.1	<1.6	<1.6	<1.6	<1.6	<1.6
Chromium (total)	CE264 ^U	mg/kg Cr	48.8	38.6	29.6	37.7	39.0	29.5
Chromium (VI)	CE263	mg/kg CrVI	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Copper (total)	CE264 ^M	mg/kg Cu	190.2	54.1	37.0	43.6	42.1	33.2
Lead (total)	CE264 ^U	mg/kg Pb	118.3	74.2	65.0	81.2	89.8	65.2
Mercury (total)	CE264 ^U	mg/kg Hg	<0.7	<0.7	0.8	0.9	<0.7	<0.7
Nickel (total)	CE264 ^M	mg/kg Ni	34.4	22.8	18.2	22.5	21.9	19.2
Selenium (total)	CE264	mg/kg Se	<3	<3	<3	<3	<3	<3
Zinc (total)	CE264 ^M	mg/kg Zn	346.6	129.1	104.9	110.6	117.0	93.1
pH	CE004 ^M	units	8.4	8.1	8.0	6.6	6.8	6.7
Sulphate (2:1 water soluble)	CE061 ^U	mg/l SO ₄	1039	324	127	106	65	42
PAH								
Naphthalene	CE087 ^M	mg/kg	0.03	<0.02	<0.02	0.02	0.04	0.04
Acenaphthylene	CE087 ^M	mg/kg	0.02	<0.02	<0.02	0.03	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	<0.02	<0.02	0.07	<0.02	0.02	<0.02
Fluorene	CE087 ^U	mg/kg	<0.02	<0.02	0.05	<0.02	<0.02	<0.02
Phenanthrene	CE087 ^M	mg/kg	0.20	0.07	1.12	0.26	0.19	0.10
Anthracene	CE087 ^U	mg/kg	0.06	0.02	0.38	0.06	0.04	0.02
Fluoranthene	CE087 ^M	mg/kg	0.63	0.13	1.85	0.37	0.28	0.16
Pyrene	CE087 ^M	mg/kg	0.58	0.12	1.44	0.33	0.25	0.15
Benzo(a)anthracene	CE087 ^U	mg/kg	0.36	0.09	0.67	0.19	0.16	0.12
Chrysene	CE087 ^M	mg/kg	0.35	0.09	0.64	0.19	0.17	0.12
Benzo(b)fluoranthene	CE087 ^M	mg/kg	0.37	0.09	0.53	0.19	0.19	0.12
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.13	0.04	0.21	0.07	0.06	0.04
Benzo(a)pyrene	CE087 ^U	mg/kg	0.26	0.06	0.39	0.14	0.15	0.08
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.19	0.05	0.22	0.10	0.10	0.06
Dibenz(ah)anthracene	CE087 ^M	mg/kg	0.04	<0.02	0.05	0.02	0.02	<0.02
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.14	0.04	0.17	0.08	0.09	0.05
PAH (total of USEPA 16)	CE087	mg/kg	3.35	0.80	7.78	2.05	1.77	1.07
TPH								
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE250	mg/kg	<0.6	<0.6	<0.6	<0.6	<0.6	1
EPH Aromatic (>EC12-EC16)	CE250	mg/kg	1	<1	<1	<1	<1	1
EPH Aromatic (>EC16-EC21)	CE250	mg/kg	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
EPH Aromatic (>EC21-EC35)	CE250	mg/kg	8	<4.5	<4.5	<4.5	<4.5	11
EPH Aromatic (>EC35-EC44)	CE250	mg/kg	<2	<2	<2	<2	<2	<2

Chemtech Environmental Limited

SOILS

Lab number			132762-1	132762-2	132762-3	132762-4	132762-5	132762-6
Sample id			G38	G39	G40	G41	G42	G43
Depth (m)			0.40	1.40	2.40	3.40	4.40	5.40
Date sampled			26/04/2024	26/04/2024	26/04/2024	26/04/2024	26/04/2024	26/04/2024
Test	Method	Units						
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EPH Aliphatic (>C10-C12)	CE250	mg/kg	<1	<1	<1	<1	<1	<1
EPH Aliphatic (>C12-C16)	CE250	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
EPH Aliphatic (>C16-C35)	CE250	mg/kg	<3	<3	<3	<3	<3	<3
EPH Aliphatic (>C35-C44)	CE250	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Subcontracted Analysis								
Asbestos (qualitative)	\$	-	NAD	NAD	NAD	NAD	NAD	NAD

Chemtech Environmental Limited

SOILS

Lab number			132762-7	132762-8
Sample id			G44	G45
Depth (m)			6.40	7.40
Date sampled			26/04/2024	26/04/2024
Test	Method	Units		
Moisture Content	CE001	% w/w	22.6	21.3
Arsenic (total)	CE264 ^M	mg/kg As	39.1	24.2
Boron (water soluble)	CE063 ^U	mg/kg B	<0.5	<0.5
Cadmium (total)	CE264 ^M	mg/kg Cd	<1.6	<1.6
Chromium (total)	CE264 ^U	mg/kg Cr	47.8	30.4
Chromium (VI)	CE263	mg/kg CrVI	<0.04	<0.04
Copper (total)	CE264 ^M	mg/kg Cu	51.2	34.1
Lead (total)	CE264 ^U	mg/kg Pb	101.6	70.2
Mercury (total)	CE264 ^U	mg/kg Hg	<0.7	0.7
Nickel (total)	CE264 ^M	mg/kg Ni	28.0	18.7
Selenium (total)	CE264	mg/kg Se	<3	<3
Zinc (total)	CE264 ^M	mg/kg Zn	138.1	89.4
pH	CE004 ^M	units	7.0	6.8
Sulphate (2:1 water soluble)	CE061 ^U	mg/l SO ₄	105	47
PAH				
Naphthalene	CE087 ^M	mg/kg	0.04	0.06
Acenaphthylene	CE087 ^M	mg/kg	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	0.02	0.03
Fluorene	CE087 ^U	mg/kg	<0.02	0.02
Phenanthrene	CE087 ^M	mg/kg	0.39	0.32
Anthracene	CE087 ^U	mg/kg	0.10	0.09
Fluoranthene	CE087 ^M	mg/kg	0.80	0.55
Pyrene	CE087 ^M	mg/kg	0.69	0.51
Benzo(a)anthracene	CE087 ^U	mg/kg	0.40	0.33
Chrysene	CE087 ^M	mg/kg	0.37	0.33
Benzo(b)fluoranthene	CE087 ^M	mg/kg	0.41	0.38
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.15	0.14
Benzo(a)pyrene	CE087 ^U	mg/kg	0.32	0.28
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.21	0.20
Dibenz(ah)anthracene	CE087 ^M	mg/kg	0.04	0.04
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.17	0.16
PAH (total of USEPA 16)	CE087	mg/kg	4.10	3.43
TPH				
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE250	mg/kg	<0.6	2
EPH Aromatic (>EC12-EC16)	CE250	mg/kg	<1	5
EPH Aromatic (>EC16-EC21)	CE250	mg/kg	<1.5	9
EPH Aromatic (>EC21-EC35)	CE250	mg/kg	<4.5	387
EPH Aromatic (>EC35-EC44)	CE250	mg/kg	<2	214

Chemtech Environmental Limited

SOILS

Lab number			132762-7	132762-8
Sample id			G44	G45
Depth (m)			6.40	7.40
Date sampled			26/04/2024	26/04/2024
Test	Method	Units		
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1
EPH Aliphatic (>C10-C12)	CE250	mg/kg	<1	<1
EPH Aliphatic (>C12-C16)	CE250	mg/kg	<0.5	1
EPH Aliphatic (>C16-C35)	CE250	mg/kg	<3	106
EPH Aliphatic (>C35-C44)	CE250	mg/kg	<0.5	21
Subcontracted Analysis				
Asbestos (qualitative)	\$	-	NAD	NAD

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE001	Moisture Content	Gravimetry, reported on Wet Weight basis	As received		0.1	% w/w
CE264	Arsenic (total)	Aqua Regia Extraction, ICPOES	Dry	M	1.8	mg/kg As
CE063	Boron (water soluble)	Hot water extract, ICP-OES	Dry	U	1	mg/kg B
CE264	Cadmium (total)	Aqua Regia Extraction, ICPOES	Dry	M	1.6	mg/kg Cd
CE264	Chromium (total)	Aqua Regia Extraction, ICPOES	Dry	U	2	mg/kg Cr
CE263	Chromium (VI)	Discrete Analyser	Dry			mg/kg CrVI
CE264	Copper (total)	Aqua Regia Extraction, ICPOES	Dry	M	1.6	mg/kg Cu
CE264	Lead (total)	Aqua Regia Extraction, ICPOES	Dry	U	2.3	mg/kg Pb
CE264	Mercury (total)	Aqua Regia Extraction, ICPOES	Dry	U	0.7	mg/kg Hg
CE264	Nickel (total)	Aqua Regia Extraction, ICPOES	Dry	M	2.1	mg/kg Ni
CE264	Selenium (total)	Aqua Regia Extraction, ICPOES	Dry	U	3	mg/kg Se
CE264	Zinc (total)	Aqua Regia Extraction, ICPOES	Dry	M	4	mg/kg Zn

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE004	pH	Based on BS 1377, pH Meter	As received	M	-	units
CE061	Sulphate (2:1 water soluble)	Aqueous extraction, ICP-OES	Dry	U	10	mg/l SO ₄

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE087	Naphthalene	Solvent extraction, GC-MS	As received	M	0.016	mg/kg
CE087	Acenaphthylene	Solvent extraction, GC-MS	As received	M	0.015	mg/kg
CE087	Acenaphthene	Solvent extraction, GC-MS	As received	M	0.013	mg/kg
CE087	Fluorene	Solvent extraction, GC-MS	As received	U	0.013	mg/kg
CE087	Phenanthrene	Solvent extraction, GC-MS	As received	M	0.014	mg/kg
CE087	Anthracene	Solvent extraction, GC-MS	As received	U	0.017	mg/kg
CE087	Fluoranthene	Solvent extraction, GC-MS	As received	M	0.017	mg/kg
CE087	Pyrene	Solvent extraction, GC-MS	As received	M	0.016	mg/kg
CE087	Benzo(a)anthracene	Solvent extraction, GC-MS	As received	U	0.012	mg/kg
CE087	Chrysene	Solvent extraction, GC-MS	As received	M	0.028	mg/kg
CE087	Benzo(b)fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(k)fluoranthene	Solvent extraction, GC-MS	As received	M	0.025	mg/kg
CE087	Benzo(a)pyrene	Solvent extraction, GC-MS	As received	U	0.019	mg/kg
CE087	Indeno(123cd)pyrene	Solvent extraction, GC-MS	As received	M	0.019	mg/kg
CE087	Dibenz(ah)anthracene	Solvent extraction, GC-MS	As received	M	0.017	mg/kg
CE087	Benzo(ghi)perylene	Solvent extraction, GC-MS	As received	M	0.019	mg/kg
CE087	PAH (total of USEPA 16)	Solvent extraction, GC-MS	As received		0.028	mg/kg
CE067	VPH Aromatic (>EC5-EC7)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC7-EC8)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC8-EC10)	Headspace GC-FID	As received		0.01	mg/kg
CE250	EPH Aromatic (>EC10-EC12)	Solvent extraction, GCxGC-FID	As received		0.6	mg/kg
CE250	EPH Aromatic (>EC12-EC16)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aromatic (>EC16-EC21)	Solvent extraction, GCxGC-FID	As received		1.5	mg/kg
CE250	EPH Aromatic (>EC21-EC35)	Solvent extraction, GCxGC-FID	As received		4.5	mg/kg
CE250	EPH Aromatic (>EC35-EC44)	Solvent extraction, GCxGC-FID	As received		2	mg/kg
CE067	VPH Aliphatic (>C5-C6)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C6-C8)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C8-C10)	Headspace GC-FID	As received		0.1	mg/kg
CE250	EPH Aliphatic (>C10-C12)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aliphatic (>C12-C16)	Solvent extraction, GCxGC-FID	As received		0.5	mg/kg
CE250	EPH Aliphatic (>C16-C35)	Solvent extraction, GCxGC-FID	As received		3	mg/kg
CE250	EPH Aliphatic (>C35-C44)	Solvent extraction, GCxGC-FID	As received		0.5	mg/kg
\$	Asbestos (qualitative)	HSG 248, Microscopy	Dry	U	-	-
\$	Asbestos (quantitative)	HSG 248, Microscopy & Gravimetry	Dry	U	0.001	% w/w

Chemtech Environmental Limited

DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.

For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.

Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

N	No (not deviating sample)
Y	Yes (deviating sample)
NSD	Sampling date not provided
NST	Sampling time not provided (waters only)
EHT	Sample exceeded holding time(s)
IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
132762-1	G38	0.40	N	
132762-2	G39	1.40	N	
132762-3	G40	2.40	N	
132762-4	G41	3.40	N	
132762-5	G42	4.40	N	
132762-6	G43	5.40	N	
132762-7	G44	6.40	N	
132762-8	G45	7.40	N	

Chemtech Environmental Limited

ADDITIONAL INFORMATION

Notes

Opinions and interpretations expressed herein are outside the UKAS accreditation scope.

Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.

All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing.

Methods, procedures and performance data are available on request.

Results reported herein relate only to the material supplied to the laboratory.

This report shall not be reproduced except in full, without prior written approval.

Soil/Solid samples will be disposed of 4 weeks from initial receipt unless otherwise agreed.

Waters and leachate samples will be disposed of 2 weeks from report issue unless otherwise agreed.

DEFRA Licence for the introduction and movement within England of prohibited soil for chemical and physical analysis Licence No: 132693/469907-0

For soils and solids, all results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.

For soils and solids, analytical results are inclusive of stones, where applicable.

Moisture Content Calculated on a Wet Weight basis



ANALYTICAL TEST REPORT

Contract no: 135889

Contract name: Midlothian

Client reference: 3500

Clients name: Ashton Bennett

Clients address: 131 Huddersfield Road
Holmfirth
West Yorkshire
HD9 3TW

Samples received: 09 August 2024

Analysis started: 09 August 2024

Analysis completed 20 August 2024

Report issued: 20 August 2024

Key

U	UKAS accredited test
M	MCERTS & UKAS accredited test
\$	Test carried out by an approved subcontractor
I/S	Insufficient sample to carry out test
N/S	Sample not suitable for testing
NAD	No Asbestos Detected

Approved by:

Abbie Neasham-Bourn
Senior Reporting Administrator

Unit 6 Parkhead, Greencroft Industrial Park, Stanley, County Durham, DH9 7YB
Tel 01207 528578 Email customerservices@chemtech-env.co.uk
Vat Reg No. 772 5703 18 Registered in England number 4284013

Chemtech Environmental Limited

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
135889-1	46	-	Loamy Sand with Gravel & Roots	-	-	9.6
135889-2	46(1)	-	Loamy Sand with Gravel & Roots	-	-	17.4
135889-3	46(2)	-	Loamy Sand with Gravel & Roots	-	-	13.2
135889-4	47	-	Sandy Loam with Gravel & Roots	-	-	27.8
135889-5	47(1)	-	Loamy Sand with Gravel & Roots	-	-	14.1
135889-6	47(2)	-	Loamy Sand with Gravel & Roots	-	-	16
135889-7	48	-	Loamy Sand with Gravel & Roots	-	-	17
135889-8	49	-	Loamy Sand with Gravel & Roots	-	-	14.6
135889-9	50	-	Loamy Sand with Gravel & Roots	-	-	15.6

Chemtech Environmental Limited

SOILS

Lab number			135889-1	135889-2	135889-3	135889-4	135889-5	135889-6	135889-7	135889-8	135889-9
Sample id			46	46(1)	46(2)	47	47(1)	47(2)	48	49	50
Depth (m)			-	-	-	-	-	-	-	-	-
Date sampled			07/08/2024	07/08/2024	07/08/2024	07/08/2024	07/08/2024	07/08/2024	07/08/2024	07/08/2024	07/08/2024
Test	Method	Units									
Arsenic (total)	CE264 ^U	mg/kg As	16.9	9.9	9.4	17.5	9.6	9.6	14.1	20.5	24.4
Cadmium (total)	CE264 ^M	mg/kg Cd	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6
Chromium (total)	CE264 ^U	mg/kg Cr	55.3	46.1	46.6	48.5	48.9	56.3	52.6	41.7	38.2
Copper (total)	CE264 ^M	mg/kg Cu	25.4	19.2	21.0	26.1	24.7	32.6	24.2	28.2	32.3
Lead (total)	CE264 ^U	mg/kg Pb	46.9	46.2	50.3	54.2	69.5	71.5	65.4	57.9	63.7
Mercury (total)	CE264 ^U	mg/kg Hg	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7
Nickel (total)	CE264 ^M	mg/kg Ni	18.9	8.6	9.3	15.2	10.4	12.6	10.1	17.0	18.5
Selenium (total)	CE264	mg/kg Se	<3	<3	<3	<3	<3	<3	<3	<3	<3
Zinc (total)	CE264 ^M	mg/kg Zn	73.7	42.1	48.7	68.1	47.8	51.3	50.6	72.5	82.3
PAH											
Naphthalene	CE087 ^M	mg/kg	0.05	0.04	0.06	0.04	0.06	0.08	0.08	0.04	0.05
Acenaphthylene	CE087 ^M	mg/kg	<0.02	0.04	0.03	<0.02	0.06	<0.02	<0.02	<0.02	<0.02
Acenaphthene	CE087 ^M	mg/kg	<0.02	0.05	0.07	<0.02	0.10	0.04	0.20	<0.02	<0.02
Fluorene	CE087 ^U	mg/kg	0.02	0.05	0.05	<0.02	0.11	0.03	0.13	<0.02	<0.02
Phenanthrene	CE087 ^M	mg/kg	0.32	0.72	0.62	0.18	1.18	0.47	1.71	0.15	0.24
Anthracene	CE087 ^U	mg/kg	0.09	0.17	0.14	0.05	0.28	0.11	0.39	0.02	0.05
Fluoranthene	CE087 ^M	mg/kg	0.55	1.29	1.26	0.32	1.88	0.98	2.48	0.24	0.45
Pyrene	CE087 ^M	mg/kg	0.50	1.17	1.16	0.30	1.70	0.91	2.13	0.23	0.43
Benzo(a)anthracene	CE087 ^U	mg/kg	0.27	0.58	0.65	0.17	0.84	0.49	1.03	0.13	0.24
Chrysene	CE087 ^M	mg/kg	0.34	0.71	0.77	0.21	0.94	0.61	1.26	0.17	0.30
Benzo(b)fluoranthene	CE087 ^M	mg/kg	0.32	0.68	0.80	0.19	0.91	0.59	1.11	0.16	0.27
Benzo(k)fluoranthene	CE087 ^M	mg/kg	0.13	0.25	0.34	0.08	0.42	0.24	0.54	0.07	0.11
Benzo(a)pyrene	CE087 ^U	mg/kg	0.26	0.64	0.67	0.13	0.86	0.51	1.08	0.11	0.21
Indeno(123cd)pyrene	CE087 ^M	mg/kg	0.21	0.41	0.50	0.13	0.62	0.38	0.70	0.11	0.17
Dibenz(ah)anthracene	CE087 ^M	mg/kg	0.04	0.08	0.11	<0.02	0.11	0.07	0.13	<0.02	0.03
Benzo(ghi)perylene	CE087 ^M	mg/kg	0.18	0.37	0.44	0.12	0.54	0.34	0.60	0.09	0.15
PAH (total of USEPA 16)	CE087	mg/kg	3.27	7.25	7.67	1.91	10.6	5.85	13.6	1.53	2.69
TPH											
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
EPH Aromatic (>EC10-EC12)	CE250	mg/kg	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
EPH Aromatic (>EC12-EC16)	CE250	mg/kg	<1	<1	2	1	1	<1	1	1	<1
EPH Aromatic (>EC16-EC21)	CE250	mg/kg	<1.5	<1.5	5	3	4	<1.5	3	<1.5	<1.5
EPH Aromatic (>EC21-EC35)	CE250	mg/kg	<4.5	6	20	8	16	8	10	10	<4.5
EPH Aromatic (>EC35-EC44)	CE250	mg/kg	<2	<2	4	<2	3	<2	2	<2	<2
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
EPH Aliphatic (>C10-C12)	CE250	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
EPH Aliphatic (>C12-C16)	CE250	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
EPH Aliphatic (>C16-C35)	CE250	mg/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3
EPH Aliphatic (>C35-C44)	CE250	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Subcontracted Analysis											
Asbestos (qualitative)	\$	-	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD

Chemtech Environmental Limited

METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE264	Arsenic (total)	Aqua Regia Extraction, ICPOES	Dry	U	1.8	mg/kg As
CE264	Cadmium (total)	Aqua Regia Extraction, ICPOES	Dry	M	1.6	mg/kg Cd
CE264	Chromium (total)	Aqua Regia Extraction, ICPOES	Dry	U	2	mg/kg Cr
CE264	Copper (total)	Aqua Regia Extraction, ICPOES	Dry	M	1.6	mg/kg Cu
CE264	Lead (total)	Aqua Regia Extraction, ICPOES	Dry	U	2.3	mg/kg Pb
CE264	Mercury (total)	Aqua Regia Extraction, ICPOES	Dry	U	0.7	mg/kg Hg
CE264	Nickel (total)	Aqua Regia Extraction, ICPOES	Dry	M	2.1	mg/kg Ni
CE264	Selenium (total)	Aqua Regia Extraction, ICPOES	Dry	U	3	mg/kg Se
CE264	Zinc (total)	Aqua Regia Extraction, ICPOES	Dry	M	4	mg/kg Zn
CE087	Naphthalene	Solvent extraction, GC-MS	As received	M	0.016	mg/kg
CE087	Acenaphthylene	Solvent extraction, GC-MS	As received	M	0.015	mg/kg
CE087	Acenaphthene	Solvent extraction, GC-MS	As received	M	0.013	mg/kg
CE087	Fluorene	Solvent extraction, GC-MS	As received	U	0.013	mg/kg
CE087	Phenanthrene	Solvent extraction, GC-MS	As received	M	0.014	mg/kg
CE087	Anthracene	Solvent extraction, GC-MS	As received	U	0.017	mg/kg
CE087	Fluoranthene	Solvent extraction, GC-MS	As received	M	0.017	mg/kg
CE087	Pyrene	Solvent extraction, GC-MS	As received	M	0.016	mg/kg
CE087	Benzo(a)anthracene	Solvent extraction, GC-MS	As received	U	0.012	mg/kg
CE087	Chrysene	Solvent extraction, GC-MS	As received	M	0.028	mg/kg
CE087	Benzo(b)fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(k)fluoranthene	Solvent extraction, GC-MS	As received	M	0.025	mg/kg
CE087	Benzo(a)pyrene	Solvent extraction, GC-MS	As received	U	0.019	mg/kg
CE087	Indeno(123cd)pyrene	Solvent extraction, GC-MS	As received	M	0.019	mg/kg
CE087	Dibenz(ah)anthracene	Solvent extraction, GC-MS	As received	M	0.017	mg/kg
CE087	Benzo(ghi)perylene	Solvent extraction, GC-MS	As received	M	0.019	mg/kg
CE087	PAH (total of USEPA 16)	Solvent extraction, GC-MS	As received		0.028	mg/kg
CE067	VPH Aromatic (>EC5-EC7)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC7-EC8)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC8-EC10)	Headspace GC-FID	As received		0.01	mg/kg
CE250	EPH Aromatic (>EC10-EC12)	Solvent extraction, GCxGC-FID	As received		0.6	mg/kg
CE250	EPH Aromatic (>EC12-EC16)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aromatic (>EC16-EC21)	Solvent extraction, GCxGC-FID	As received		1.5	mg/kg
CE250	EPH Aromatic (>EC21-EC35)	Solvent extraction, GCxGC-FID	As received		4.5	mg/kg
CE250	EPH Aromatic (>EC35-EC44)	Solvent extraction, GCxGC-FID	As received		2	mg/kg
CE067	VPH Aliphatic (>C5-C6)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C6-C8)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C8-C10)	Headspace GC-FID	As received		0.1	mg/kg
CE250	EPH Aliphatic (>C10-C12)	Solvent extraction, GCxGC-FID	As received		1	mg/kg
CE250	EPH Aliphatic (>C12-C16)	Solvent extraction, GCxGC-FID	As received		0.5	mg/kg
CE250	EPH Aliphatic (>C16-C35)	Solvent extraction, GCxGC-FID	As received		3	mg/kg
CE250	EPH Aliphatic (>C35-C44)	Solvent extraction, GCxGC-FID	As received		0.5	mg/kg
\$	Asbestos (qualitative)	HSG 248, Microscopy	Dry	U	-	-

Chemtech Environmental Limited

DEVIATING SAMPLE INFORMATION

Comments

Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.

For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.

Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

N	No (not deviating sample)
Y	Yes (deviating sample)
NSD	Sampling date not provided
NST	Sampling time not provided (waters only)
EHT	Sample exceeded holding time(s)
IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
135889-1	46	-	N	
135889-2	46(1)	-	N	
135889-3	46(2)	-	N	
135889-4	47	-	N	
135889-5	47(1)	-	N	
135889-6	47(2)	-	N	
135889-7	48	-	N	
135889-8	49	-	N	
135889-9	50	-	N	

Chemtech Environmental Limited

ADDITIONAL INFORMATION

Notes

Opinions and interpretations expressed herein are outside the UKAS accreditation scope.

Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.

All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing.

Methods, procedures and performance data are available on request.

Results reported herein relate only to the material supplied to the laboratory.

This report shall not be reproduced except in full, without prior written approval.

Soil/Solid samples will be disposed of 4 weeks from initial receipt unless otherwise agreed.

Waters and leachate samples will be disposed of 2 weeks from report issue unless otherwise agreed.

DEFRA Licence for the introduction and movement within England of prohibited soil for chemical and physical analysis Licence No: 132693/469907-0

For soils and solids, all results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.

For soils and solids, analytical results are inclusive of stones, where applicable.

Moisture Content Calculated on a Wet Weight basis

Certificate of Analysis

Client: Ashton Bennett Ltd

Project: 23110636

Quote: BEC231132230 V2.1

Project Ref: 3536

Site: Woodlands

Contact: Frances Bennett

Address: Unit L Bridge Mills
Huddersfield Road,
Holmfirth
HD9 2NH

E-Mail: fabennett@ashton-bennett.co.uk

Phone: 07771706074

No. Samples Received: 3

Date Received: 07/11/2023

Analysis Date: 14/11/2023

Date Issued: 14/11/2023

Report Type: Final Version 02

This report supersedes any versions previously issued by the laboratory



Reported by Customer Service Co-Ordinator
Julie Dickinson
01283 554496



Client: Ashton Bennett Ltd
Project Name: 3536-Woodlands
Project No: 23110636
Date Issued: 14/11/2023

Samples Analysed

<u>Text ID</u>	<u>Sample Reference</u>	<u>Sampling Date</u>	<u>Sample Type</u>	<u>Sample Description</u>
23110636-001	36/1	01/11/2023 11:30:00	SOLID	Soil Sample
23110636-002	36/2	01/11/2023 11:30:00	SOLID	Soil Sample
23110636-003	36/3	01/11/2023 11:30:00	SOLID	Soil Sample



Client: Ashton Bennett Ltd
 Project Name: 3536-Woodlands
 Project No: 23110636
 Date Issued: 14/11/2023



Analysis Results

Analysis	Method Code	MDL	Units	Accred.	Sample ID	001	002	003
					Customer ID	36/1	36/2	36/3
					Sample Type	SOLID	SOLID	SOLID
					Sampling Date	01/11/2023	01/11/2023	01/11/2023
Acenaphthene	PAHMSUS	0.08	mg/kg^	UM		0.16	<0.11	0.20
Acenaphthylene	PAHMSUS	0.08	mg/kg^	U		0.20	<0.11	<0.11
Anthracene	PAHMSUS	0.08	mg/kg^	U		0.69	0.20	0.50
Benzo[a]anthracene	PAHMSUS	0.08	mg/kg^	UM		2.86	0.48	1.00
Benzo[a]pyrene	PAHMSUS	0.08	mg/kg^	UM		5.28	0.52	0.93
Benzo[b]fluoranthene	PAHMSUS	0.08	mg/kg^	UM		5.50	0.52	0.92
Benzo[g,h,i]perylene	PAHMSUS	0.08	mg/kg^	UM		3.25	0.23	0.41
Benzo[k]fluoranthene	PAHMSUS	0.08	mg/kg^	UM		1.90	0.23	0.49
Chrysene	PAHMSUS	0.08	mg/kg^	UM		2.25	0.56	1.00
Dibenzo[a,h]anthracene	PAHMSUS	0.08	mg/kg^	UM		0.94	<0.11	0.17
Fluoranthene	PAHMSUS	0.08	mg/kg^	UM		4.21	1.03	2.31
Fluorene	PAHMSUS	0.08	mg/kg^	UM		<0.11	<0.11	0.14
Indeno[1,2,3-cd]pyrene	PAHMSUS	0.08	mg/kg^	UM		3.61	0.27	0.49
Naphthalene	PAHMSUS	0.08	mg/kg^	UM		0.12	<0.11	0.13
Phenanthrene	PAHMSUS	0.08	mg/kg^	UM		1.18	0.57	1.50
Pyrene	PAHMSUS	0.08	mg/kg^	UM		4.36	0.93	1.94
Total PAH 16	PAHMSUS	1.28	mg/kg^	U		36.6	6.10	12.2
Total Moisture at 35°C	CLANDPREP	0.1	%	N		29.6	26.6	26.7
Colour of Material	CLANDPREP		-	N		Brown/Black	Brown/Black	Brown/Black



Client: Ashton Bennett Ltd
 Project Name: 3536-Woodlands
 Project No: 23110636
 Date Issued: 14/11/2023



Analysis Results

					Sample ID	001	002	003
					Customer ID	36/1	36/2	36/3
					Sample Type	SOLID	SOLID	SOLID
					Sampling Date	01/11/2023	01/11/2023	01/11/2023
Analysis	Method Code	MDL	Units	Accred.				
Major Constituents	CLANDPREP		-	N	CLAY	CLAY	CLAY	CLAY
Minor Constituents	CLANDPREP		-	N	Gravel	Gravel	Gravel	Gravel
Miscellaneous Constituents	CLANDPREP		-	N	Organic Matter	Organic Matter	Organic Matter	Organic Matter



Client: Ashton Bennett Ltd
Project Name: 3536-Woodlands
Project No: 23110636
Date Issued: 14/11/2023

Deviating Sample Report

All samples received in an appropriate condition with no deviancies noted with the samples.

Analysis Method

<u>Method Code</u>	<u>Method Description</u>	<u>Analysis Method</u>
CLANDPREP	DW35 - CLand Prep and Dry Weight Correction to 35°C	As Received
CLANDPREP	Solid Material Description	As Received
PAHMSUS	16 PAHs by GCMS	As Received

Result Report Notes

Letters alongside results signify that the result has associated report notes.
The report notes are as follows:

<u>Letter</u>	<u>Note</u>
A	Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data.
B	The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised.
C	Due to matrix interference, the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data.
D	A non-standard volume or mass has been used for this test which has resulted in a raised detection limit.
E	Due to the parameter value being beyond our calibration range (and following the maximum size of dilution allowed, where applicable), the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only.
F	Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only.
G	The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only.

HWOL Acronym Key

<u>Acronym</u>	<u>Description</u>
HS	Headspace Analysis
EH	Extractable Hydrocarbons - i.e everything extracted by the solvent(s)
CU	Clean up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
+	Operator to indicate cumulative e.g. EH_CU+HS_1D_Total



Client: Ashton Bennett Ltd
Project Name: 3536-Woodlands
Project No: 23110636
Date Issued: 14/11/2023

Additional Information

This report refers to samples as received. SOCOTEC UK Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

The accreditation codes are as follows:

- U = UKAS accredited analysis
- M = MCERT accredited analysis
- N = Unaccredited analysis

Any units marked with ^ signify results are reported on a dry weight basis of 35 °C.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35 °C.

This report shall not be reproduced except in full, without written approval of the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any samples marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with ‡ have had MCERTS accreditation removed for this result

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

- IS = Insufficient Sample to complete analysis
- NA = Sample is not amenable for the required analysis
- ND = Results cannot be determined

Items listed with a 'SUB' method code prefix have been carried out by an external subcontracted laboratory.

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the subcontracted lab for information regarding any deviancies for this analysis.

Summaries of analysis methods are available upon request.

End of Certificate of Analysis

Certificate of Analysis

Client: Ashton Bennett Ltd

Project: 23110641

Quote: BEC231132230 V2.1

Project Ref: 3529

Site: Woodlands

Contact: Frances Bennett

Address: Unit L Bridge Mills
Huddersfield Road,
Holmfirth
HD9 2NH

E-Mail: fabennett@ashton-bennett.co.uk

Phone: 07771706074

No. Samples Received: 3

Date Received: 07/11/2023

Analysis Date: 15/11/2023

Date Issued: 15/11/2023

Report Type: Final Version 01

This report supersedes any versions previously issued by the laboratory



Reported by Customer Service Co-Ordinator
Julie Dickinson
01283 554496



Client: Ashton Bennett Ltd
Project Name: 3529-Woodlands
Project No: 23110641
Date Issued: 15/11/2023

Samples Analysed

<u>Text ID</u>	<u>Sample Reference</u>	<u>Sampling Date</u>	<u>Sample Type</u>	<u>Sample Description</u>
23110641-001	29	01/11/2023 11:30:00	SOLID	Soil Sample
23110641-002	23	01/11/2023 11:30:00	SOLID	Soil Sample
23110641-003	30	01/11/2023 11:30:00	SOLID	Soil Sample



Client: Ashton Bennett Ltd
 Project Name: 3529-Woodlands
 Project No: 23110641
 Date Issued: 15/11/2023



Analysis Results

Analysis	Method Code	MDL	Units	Accred.	Sample ID	001	002	003
					Customer ID	29	23	30
					Sample Type	SOLID	SOLID	SOLID
					Sampling Date	01/11/2023	01/11/2023	01/11/2023
Acenaphthene	PAHMSUS	0.08	mg/kg^	UM		0.19	0.27	0.18
Acenaphthylene	PAHMSUS	0.08	mg/kg^	U		<0.11	<0.11	<0.11
Anthracene	PAHMSUS	0.08	mg/kg^	U		0.53	0.84	0.50
Benzo[a]anthracene	PAHMSUS	0.08	mg/kg^	UM		1.13	1.33	0.62
Benzo[a]pyrene	PAHMSUS	0.08	mg/kg^	UM		1.02	1.32	0.57
Benzo[b]fluoranthene	PAHMSUS	0.08	mg/kg^	UM		1.24	1.45	0.73
Benzo[g,h,i]perylene	PAHMSUS	0.08	mg/kg^	UM		0.46	0.64	0.29
Benzo[k]fluoranthene	PAHMSUS	0.08	mg/kg^	UM		0.62	0.72	0.34
Chrysene	PAHMSUS	0.08	mg/kg^	UM		1.32	1.51	0.88
Dibenzo[a,h]anthracene	PAHMSUS	0.08	mg/kg^	UM		0.14	0.18	<0.11
Fluoranthene	PAHMSUS	0.08	mg/kg^	UM		2.66	3.35	1.61
Fluorene	PAHMSUS	0.08	mg/kg^	UM		0.12	<0.11	<0.11
Indeno[1,2,3-cd]pyrene	PAHMSUS	0.08	mg/kg^	UM		0.42	0.58	0.24
Naphthalene	PAHMSUS	0.08	mg/kg^	UM		0.21	0.11	0.23
Phenanthrene	PAHMSUS	0.08	mg/kg^	UM		1.52	2.33	1.44
Pyrene	PAHMSUS	0.08	mg/kg^	UM		2.34	2.86	1.37
Total PAH 16	PAHMSUS	1.28	mg/kg^	U		14.0	17.7	9.33
Total Moisture at 35°C	CLANDPREP	0.1	%	N		28.1	26.4	27.7
Colour of Material	CLANDPREP		-	N		Brown/Black	Brown/Black	Brown/Black



Client: Ashton Bennett Ltd
 Project Name: 3529-Woodlands
 Project No: 23110641
 Date Issued: 15/11/2023



Analysis Results

					Sample ID	001	002	003
					Customer ID	29	23	30
					Sample Type	SOLID	SOLID	SOLID
					Sampling Date	01/11/2023	01/11/2023	01/11/2023
Analysis	Method Code	MDL	Units	Accred.				
Major Constituents	CLANDPREP		-	N	CLAY	CLAY	CLAY	CLAY
Minor Constituents	CLANDPREP		-	N	Gravel	Gravel	Gravel	Gravel
Miscellaneous Constituents	CLANDPREP		-	N	Organic Matter	Organic Matter	Organic Matter	Organic Matter



Client: Ashton Bennett Ltd
Project Name: 3529-Woodlands
Project No: 23110641
Date Issued: 15/11/2023

Deviating Sample Report

All samples received in an appropriate condition with no deviancies noted with the samples.

Analysis Method

<u>Method Code</u>	<u>Method Description</u>	<u>Analysis Method</u>
CLANDPREP	DW35 - CLand Prep and Dry Weight Correction to 35°C	As Received
CLANDPREP	Solid Material Description	As Received
PAHMSUS	16 PAHs by GCMS	As Received

Result Report Notes

Letters alongside results signify that the result has associated report notes.
The report notes are as follows:

<u>Letter</u>	<u>Note</u>
A	Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data.
B	The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised.
C	Due to matrix interference, the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data.
D	A non-standard volume or mass has been used for this test which has resulted in a raised detection limit.
E	Due to the parameter value being beyond our calibration range (and following the maximum size of dilution allowed, where applicable), the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only.
F	Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only.
G	The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only.

HWOL Acronym Key

<u>Acronym</u>	<u>Description</u>
HS	Headspace Analysis
EH	Extractable Hydrocarbons - i.e everything extracted by the solvent(s)
CU	Clean up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
+	Operator to indicate cumulative e.g. EH_CU+HS_1D_Total



Client: Ashton Bennett Ltd
Project Name: 3529-Woodlands
Project No: 23110641
Date Issued: 15/11/2023

Additional Information

This report refers to samples as received. SOCOTEC UK Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

The accreditation codes are as follows:

- U = UKAS accredited analysis
- M = MCERT accredited analysis
- N = Unaccredited analysis

Any units marked with ^ signify results are reported on a dry weight basis of 35 °C.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35 °C.

This report shall not be reproduced except in full, without written approval of the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any samples marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with ‡ have had MCERTS accreditation removed for this result

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

- IS = Insufficient Sample to complete analysis
- NA = Sample is not amenable for the required analysis
- ND = Results cannot be determined

Items listed with a 'SUB' method code prefix have been carried out by an external subcontracted laboratory.

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the subcontracted lab for information regarding any deviancies for this analysis.

Summaries of analysis methods are available upon request.

End of Certificate of Analysis

Certificate of Analysis

Client: Ashton Bennett Ltd

Project: 23110643

Quote: BEC231132230 V2.1

Project Ref: 3532

Site: Woodlands

Contact: Frances Bennett

Address: Unit L Bridge Mills
Huddersfield Road,
Holmfirth
HD9 2NH

E-Mail: fabennett@ashton-bennett.co.uk

Phone: 07771706074

No. Samples Received: 4

Date Received: 07/11/2023

Analysis Date: 16/11/2023

Date Issued: 16/11/2023

Report Type: Final Version 01

This report supersedes any versions previously issued by the laboratory



Reported by Customer Service Co-Ordinator
Julie Dickinson
01283 554496



Client: Ashton Bennett Ltd
Project Name: 3532-Woodlands
Project No: 23110643
Date Issued: 16/11/2023

Samples Analysed

<u>Text ID</u>	<u>Sample Reference</u>	<u>Sampling Date</u>	<u>Sample Type</u>	<u>Sample Description</u>
23110643-001	32/1	01/11/2023 11:30:00	SOLID	Soil Sample
23110643-002	32/2	01/11/2023 11:30:00	SOLID	Soil Sample
23110643-003	32/3	01/11/2023 11:30:00	SOLID	Soil Sample
23110643-004	32/4	01/11/2023 11:30:00	SOLID	Soil Sample



Client: Ashton Bennett Ltd
Project Name: 3532-Woodlands
Project No: 23110643
Date Issued: 16/11/2023



Analysis Results

Analysis	Method Code	MDL	Units	Accred.	Sample ID	001	002	003	004
					Customer ID	32/1	32/2	32/3	32/4
					Sample Type	SOLID	SOLID	SOLID	SOLID
					Sampling Date	01/11/2023	01/11/2023	01/11/2023	01/11/2023
Lead as Pb	ICPMSS	0.7	mg/kg^	UM					77.1
Acenaphthene	PAHMSUS	0.08	mg/kg^	UM		0.20	0.13	<0.11	
Acenaphthylene	PAHMSUS	0.08	mg/kg^	U		<0.12	<0.11	<0.11	
Anthracene	PAHMSUS	0.08	mg/kg^	U		0.74	0.35	0.33	
Benzo[a]anthracene	PAHMSUS	0.08	mg/kg^	UM		1.10	0.93	0.86	
Benzo[a]pyrene	PAHMSUS	0.08	mg/kg^	UM		0.92	0.90	0.89	
Benzo[b]fluoranthene	PAHMSUS	0.08	mg/kg^	UM		1.07	1.00	0.90	
Benzo[g,h,i]perylene	PAHMSUS	0.08	mg/kg^	UM		0.41	0.48	0.45	
Benzo[k]fluoranthene	PAHMSUS	0.08	mg/kg^	UM		0.50	0.47	0.47	
Chrysene	PAHMSUS	0.08	mg/kg^	UM		1.28	1.01	0.92	
Dibenzo[a,h]anthracene	PAHMSUS	0.08	mg/kg^	UM		0.20	0.18	0.16	
Fluoranthene	PAHMSUS	0.08	mg/kg^	UM		2.68	2.13	1.89	
Fluorene	PAHMSUS	0.08	mg/kg^	UM		0.16	<0.11	<0.11	
Indeno[1,2,3-cd]pyrene	PAHMSUS	0.08	mg/kg^	UM		0.46	0.49	0.47	
Naphthalene	PAHMSUS	0.08	mg/kg^	UM		0.16	<0.11	<0.11	
Phenanthrene	PAHMSUS	0.08	mg/kg^	UM		1.81	1.07	0.93	
Pyrene	PAHMSUS	0.08	mg/kg^	UM		2.21	1.87	1.64	
Total PAH 16	PAHMSUS	1.28	mg/kg^	U		14.0	11.3	10.3	
Total Moisture at 35°C	CLANDPREP	0.1	%	N		31.3	27.1	26.0	26.1



Client: Ashton Bennett Ltd
 Project Name: 3532-Woodlands
 Project No: 23110643
 Date Issued: 16/11/2023



Analysis Results

					Sample ID	001	002	003	004
					Customer ID	32/1	32/2	32/3	32/4
					Sample Type	SOLID	SOLID	SOLID	SOLID
					Sampling Date	01/11/2023	01/11/2023	01/11/2023	01/11/2023
Analysis	Method Code	MDL	Units	Accred.					
Colour of Material	CLANDPREP		-	N	Brown/Black	Brown/Black	Brown/Black	Brown/Black	Brown/Black
Major Constituents	CLANDPREP		-	N	CLAY	CLAY	CLAY	CLAY	CLAY
Minor Constituents	CLANDPREP		-	N	Gravel	Gravel	Gravel	Gravel	Gravel
Miscellaneous Constituents	CLANDPREP		-	N	Organic Matter	Organic Matter	Organic Matter	Organic Matter	Organic Matter



Client: Ashton Bennett Ltd
Project Name: 3532-Woodlands
Project No: 23110643
Date Issued: 16/11/2023

Deviating Sample Report

All samples received in an appropriate condition with no deviancies noted with the samples.

Analysis Method

<u>Method Code</u>	<u>Method Description</u>	<u>Analysis Method</u>
CLANDPREP	DW35 - CLand Prep and Dry Weight Correction to 35°C	As Received
CLANDPREP	Solid Material Description	As Received
ICPMSS	Lead in Solids by ICPMS	Air Dried & Ground
PAHMSUS	16 PAHs by GCMS	As Received

Result Report Notes

Letters alongside results signify that the result has associated report notes.
The report notes are as follows:

<u>Letter</u>	<u>Note</u>
A	Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data.
B	The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised.
C	Due to matrix interference, the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data.
D	A non-standard volume or mass has been used for this test which has resulted in a raised detection limit.
E	Due to the parameter value being beyond our calibration range (and following the maximum size of dilution allowed, where applicable), the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only.
F	Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only.
G	The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only.

HWOL Acronym Key

<u>Acronym</u>	<u>Description</u>
HS	Headspace Analysis
EH	Extractable Hydrocarbons - i.e everything extracted by the solvent(s)
CU	Clean up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
+	Operator to indicate cumulative e.g. EH_CU+HS_1D_Total



Client: Ashton Bennett Ltd
Project Name: 3532-Woodlands
Project No: 23110643
Date Issued: 16/11/2023

Additional Information

This report refers to samples as received. SOCOTEC UK Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

The accreditation codes are as follows:

- U = UKAS accredited analysis
- M = MCERT accredited analysis
- N = Unaccredited analysis

Any units marked with ^ signify results are reported on a dry weight basis of 35 °C.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35 °C.

This report shall not be reproduced except in full, without written approval of the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any samples marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with ‡ have had MCERTS accreditation removed for this result

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

- IS = Insufficient Sample to complete analysis
- NA = Sample is not amenable for the required analysis
- ND = Results cannot be determined

Items listed with a 'SUB' method code prefix have been carried out by an external subcontracted laboratory.

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the subcontracted lab for information regarding any deviancies for this analysis.

Summaries of analysis methods are available upon request.

End of Certificate of Analysis

Certificate of Analysis

Client: Ashton Bennett Ltd

Project: 23110645

Quote: BEC231132230 V2.1

Project Ref: 3533

Site: Woodlands

Contact: Frances Bennett

Address: Unit L Bridge Mills
Huddersfield Road,
Holmfirth
HD9 2NH

E-Mail: fabennett@ashton-bennett.co.uk

Phone: 07771706074

No. Samples Received: 7

Date Received: 07/11/2023

Analysis Date: 16/11/2023

Date Issued: 16/11/2023

Report Type: Final Version 01

This report supersedes any versions previously issued by the laboratory



Reported by Customer Service Co-Ordinator
Julie Dickinson
01283 554496



Client: Ashton Bennett Ltd
Project Name: 3533-Woodlands
Project No: 23110645
Date Issued: 16/11/2023

Samples Analysed

<u>Text ID</u>	<u>Sample Reference</u>	<u>Sampling Date</u>	<u>Sample Type</u>	<u>Sample Description</u>
23110645-001	33/1	01/11/2023 11:30:00	SOLID	Soil Sample
23110645-002	33/1	01/11/2023 11:30:00	SOLID	Soil Sample
23110645-003	33/2	01/11/2023 11:30:00	SOLID	Soil Sample
23110645-004	33/2	01/11/2023 11:30:00	SOLID	Soil Sample
23110645-005	33/3	01/11/2023 11:30:00	SOLID	Soil Sample
23110645-006	33/3	01/11/2023 11:30:00	SOLID	Soil Sample
23110645-007	33/4	01/11/2023 11:30:00	SOLID	Soil Sample

Analysis Results

Analysis	Method Code	MDL	Units	Accred.	Sample ID	001	002	003	004	005	006	007
					Customer ID	33/1	33/1	33/2	33/2	33/3	33/3	33/4
					Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
					Sampling Date	01/11/2023	01/11/2023	01/11/2023	01/11/2023	01/11/2023	01/11/2023	01/11/2023
Lead as Pb	ICPMSS	0.7	mg/kg^	UM		133.0		11.9		10.1		58.6
Acenaphthene	PAHMSUS	0.08	mg/kg^	UM			<0.11		0.34		<0.11	
Acenaphthylene	PAHMSUS	0.08	mg/kg^	U			<0.11		<0.11		<0.11	
Anthracene	PAHMSUS	0.08	mg/kg^	U			0.20		0.65		0.24	
Benzo[a]anthracene	PAHMSUS	0.08	mg/kg^	UM			0.58		1.14		0.54	
Benzo[a]pyrene	PAHMSUS	0.08	mg/kg^	UM			0.63		1.01		0.55	
Benzo[b]fluoranthene	PAHMSUS	0.08	mg/kg^	UM			0.65		1.05		0.59	
Benzo[g,h,i]perylene	PAHMSUS	0.08	mg/kg^	UM			0.27		0.48		0.29	
Benzo[k]fluoranthene	PAHMSUS	0.08	mg/kg^	UM			0.26		0.50		0.33	
Chrysene	PAHMSUS	0.08	mg/kg^	UM			0.68		1.13		0.69	
Dibenzo[a,h]anthracene	PAHMSUS	0.08	mg/kg^	UM			<0.11		0.19		0.11	
Fluoranthene	PAHMSUS	0.08	mg/kg^	UM			1.28		2.64		1.31	
Fluorene	PAHMSUS	0.08	mg/kg^	UM			<0.11		0.21		<0.11	
Indeno[1,2,3-cd]pyrene	PAHMSUS	0.08	mg/kg^	UM			0.31		0.56		0.31	
Naphthalene	PAHMSUS	0.08	mg/kg^	UM			0.11		0.68		<0.11	
Phenanthrene	PAHMSUS	0.08	mg/kg^	UM			0.64		2.11		0.65	
Pyrene	PAHMSUS	0.08	mg/kg^	UM			1.13		2.21		1.10	
Total PAH 16	PAHMSUS	1.28	mg/kg^	U			7.17		15.0		7.12	
Total Moisture at 35°C	CLANDPREP	0.1	%	N		33.4	24.6	33.2	23.6	33.2	24.4	38.8



Client: Ashton Bennett Ltd
 Project Name: 3533-Woodlands
 Project No: 23110645
 Date Issued: 16/11/2023



Analysis Results

					Sample ID	001	002	003	004	005	006	007
					Customer ID	33/1	33/1	33/2	33/2	33/3	33/3	33/4
					Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
					Sampling Date	01/11/2023	01/11/2023	01/11/2023	01/11/2023	01/11/2023	01/11/2023	01/11/2023
Analysis	Method Code	MDL	Units	Accred.								
Colour of Material	CLANDPREP		-	N	Brown/Black	Brown/Black	Brown/Black	Brown/Black	Brown/Black	Brown/Black	Brown/Black	Brown/Black
Major Constituents	CLANDPREP		-	N	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY
Minor Constituents	CLANDPREP		-	N	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel
Miscellaneous Constituents	CLANDPREP		-	N	Organic Matter	Organic Matter	Organic Matter	Organic Matter	Organic Matter	Organic Matter	Organic Matter	Organic Matter



Client: Ashton Bennett Ltd
Project Name: 3533-Woodlands
Project No: 23110645
Date Issued: 16/11/2023

Deviating Sample Report

All samples received in an appropriate condition with no deviancies noted with the samples.

Analysis Method

<u>Method Code</u>	<u>Method Description</u>	<u>Analysis Method</u>
CLANDPREP	DW35 - CLand Prep and Dry Weight Correction to 35°C	As Received
CLANDPREP	Solid Material Description	As Received
ICPMSS	Lead in Solids by ICPMS	Air Dried & Ground
PAHMSUS	16 PAHs by GCMS	As Received

Result Report Notes

Letters alongside results signify that the result has associated report notes.
The report notes are as follows:

<u>Letter</u>	<u>Note</u>
A	Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data.
B	The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised.
C	Due to matrix interference, the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data.
D	A non-standard volume or mass has been used for this test which has resulted in a raised detection limit.
E	Due to the parameter value being beyond our calibration range (and following the maximum size of dilution allowed, where applicable), the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only.
F	Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only.
G	The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only.

HWOL Acronym Key

<u>Acronym</u>	<u>Description</u>
HS	Headspace Analysis
EH	Extractable Hydrocarbons - i.e everything extracted by the solvent(s)
CU	Clean up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
+	Operator to indicate cumulative e.g. EH_CU+HS_1D_Total



Client: Ashton Bennett Ltd
Project Name: 3533-Woodlands
Project No: 23110645
Date Issued: 16/11/2023

Additional Information

This report refers to samples as received. SOCOTEC UK Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

The accreditation codes are as follows:

- U = UKAS accredited analysis
- M = MCERT accredited analysis
- N = Unaccredited analysis

Any units marked with ^ signify results are reported on a dry weight basis of 35 °C.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35 °C.

This report shall not be reproduced except in full, without written approval of the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any samples marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with ‡ have had MCERTS accreditation removed for this result

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

- IS = Insufficient Sample to complete analysis
- NA = Sample is not amenable for the required analysis
- ND = Results cannot be determined

Items listed with a 'SUB' method code prefix have been carried out by an external subcontracted laboratory.

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the subcontracted lab for information regarding any deviancies for this analysis.

Summaries of analysis methods are available upon request.

End of Certificate of Analysis

Certificate of Analysis

Client: Ashton Bennett Ltd

Project: 23110651

Quote: BEC231132230 V2.1

Project Ref: 3534

Site: Woodlands

Contact: Frances Bennett

Address: Unit L Bridge Mills
Huddersfield Road,
Holmfirth
HD9 2NH

E-Mail: fabennett@ashton-bennett.co.uk

Phone: 07771706074

No. Samples Received: 7

Date Received: 07/11/2023

Analysis Date: 16/11/2023

Date Issued: 16/11/2023

Report Type: Final Version 01

This report supersedes any versions previously issued by the laboratory



Reported by Customer Service Co-Ordinator
Julie Dickinson
01283 554496



Client: Ashton Bennett Ltd
Project Name: 3534-Woodlands
Project No: 23110651
Date Issued: 16/11/2023

Samples Analysed

<u>Text ID</u>	<u>Sample Reference</u>	<u>Sampling Date</u>	<u>Sample Type</u>	<u>Sample Description</u>
23110651-001	34/1	01/11/2023 11:30:00	SOLID	Soil Sample
23110651-002	34/1	01/11/2023 11:30:00	SOLID	Soil Sample
23110651-003	34/2	01/11/2023 11:30:00	SOLID	Soil Sample
23110651-004	34/2	01/11/2023 11:30:00	SOLID	Soil Sample
23110651-005	34/3	01/11/2023 11:30:00	SOLID	Soil Sample
23110651-006	34/3	01/11/2023 11:30:00	SOLID	Soil Sample
23110651-007	34/4	01/11/2023 11:30:00	SOLID	Soil Sample



Client: Ashton Bennett Ltd
Project Name: 3534-Woodlands
Project No: 23110651
Date Issued: 16/11/2023



Analysis Results

Analysis	Method Code	MDL	Units	Accred.	Sample ID	001	002	003	004	005	006	007
					Customer ID	34/1	34/1	34/2	34/2	34/3	34/3	34/4
					Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
					Sampling Date	01/11/2023	01/11/2023	01/11/2023	01/11/2023	01/11/2023	01/11/2023	01/11/2023
Lead as Pb	ICPMSS	0.7	mg/kg^	UM		33.7		13.6		10.8		195.1
Acenaphthene	PAHMSUS	0.08	mg/kg^	UM			0.11		0.63		0.19	
Acenaphthylene	PAHMSUS	0.08	mg/kg^	U			<0.11		<0.11		<0.11	
Anthracene	PAHMSUS	0.08	mg/kg^	U			0.28		1.22		0.44	
Benzo[a]anthracene	PAHMSUS	0.08	mg/kg^	UM			0.84		2.73		1.28	
Benzo[a]pyrene	PAHMSUS	0.08	mg/kg^	UM			0.82		2.50		1.15	
Benzo[b]fluoranthene	PAHMSUS	0.08	mg/kg^	UM			0.97		2.72		1.30	
Benzo[g,h,i]perylene	PAHMSUS	0.08	mg/kg^	UM			0.37		0.92		0.46	
Benzo[k]fluoranthene	PAHMSUS	0.08	mg/kg^	UM			0.56		1.40		0.68	
Chrysene	PAHMSUS	0.08	mg/kg^	UM			0.97		2.50		1.26	
Dibenzo[a,h]anthracene	PAHMSUS	0.08	mg/kg^	UM			0.14		0.33		0.17	
Fluoranthene	PAHMSUS	0.08	mg/kg^	UM			1.86		6.52		2.73	
Fluorene	PAHMSUS	0.08	mg/kg^	UM			<0.11		0.34		<0.11	
Indeno[1,2,3-cd]pyrene	PAHMSUS	0.08	mg/kg^	UM			0.42		1.07		0.53	
Naphthalene	PAHMSUS	0.08	mg/kg^	UM			0.19		0.29		0.44	
Phenanthrene	PAHMSUS	0.08	mg/kg^	UM			1.13		3.94		2.11	
Pyrene	PAHMSUS	0.08	mg/kg^	UM			1.65		5.57		2.37	
Total PAH 16	PAHMSUS	1.28	mg/kg^	U			10.5		32.8		15.3	
Total Moisture at 35°C	CLANDPREP	0.1	%	N		26.1	25.4	25.6	25.9	18.8	24.1	26.3



Client: Ashton Bennett Ltd
 Project Name: 3534-Woodlands
 Project No: 23110651
 Date Issued: 16/11/2023



Analysis Results

					Sample ID	001	002	003	004	005	006	007
					Customer ID	34/1	34/1	34/2	34/2	34/3	34/3	34/4
					Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
					Sampling Date	01/11/2023	01/11/2023	01/11/2023	01/11/2023	01/11/2023	01/11/2023	01/11/2023
Analysis	Method Code	MDL	Units	Accred.								
Colour of Material	CLANDPREP		-	N	Brown/Black	Brown/Black	Brown/Black	Brown/Black	Brown/Black	Brown/Black	Brown/Black	Brown/Black
Major Constituents	CLANDPREP		-	N	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY
Minor Constituents	CLANDPREP		-	N	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel
Miscellaneous Constituents	CLANDPREP		-	N	Organic Matter	Organic Matter	Organic Matter	Organic Matter	Organic Matter	Organic Matter	Organic Matter	Organic Matter



Client: Ashton Bennett Ltd
Project Name: 3534-Woodlands
Project No: 23110651
Date Issued: 16/11/2023

Deviating Sample Report

All samples received in an appropriate condition with no deviancies noted with the samples.

Analysis Method

<u>Method Code</u>	<u>Method Description</u>	<u>Analysis Method</u>
CLANDPREP	DW35 - CLand Prep and Dry Weight Correction to 35°C	As Received
CLANDPREP	Solid Material Description	As Received
ICPMSS	Lead in Solids by ICPMS	Air Dried & Ground
PAHMSUS	16 PAHs by GCMS	As Received

Result Report Notes

Letters alongside results signify that the result has associated report notes.
The report notes are as follows:

<u>Letter</u>	<u>Note</u>
A	Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data.
B	The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised.
C	Due to matrix interference, the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data.
D	A non-standard volume or mass has been used for this test which has resulted in a raised detection limit.
E	Due to the parameter value being beyond our calibration range (and following the maximum size of dilution allowed, where applicable), the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only.
F	Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only.
G	The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only.

HWOL Acronym Key

<u>Acronym</u>	<u>Description</u>
HS	Headspace Analysis
EH	Extractable Hydrocarbons - i.e everything extracted by the solvent(s)
CU	Clean up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
+	Operator to indicate cumulative e.g. EH_CU+HS_1D_Total



Client: Ashton Bennett Ltd
Project Name: 3534-Woodlands
Project No: 23110651
Date Issued: 16/11/2023

Additional Information

This report refers to samples as received. SOCOTEC UK Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

The accreditation codes are as follows:

U = UKAS accredited analysis
M = MCERT accredited analysis
N = Unaccredited analysis

Any units marked with ^ signify results are reported on a dry weight basis of 35 °C.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35 °C.

This report shall not be reproduced except in full, without written approval of the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any samples marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with ‡ have had MCERTS accreditation removed for this result

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

IS = Insufficient Sample to complete analysis
NA = Sample is not amenable for the required analysis
ND = Results cannot be determined

Items listed with a 'SUB' method code prefix have been carried out by an external subcontracted laboratory.

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the subcontracted lab for information regarding any deviancies for this analysis.

Summaries of analysis methods are available upon request.

End of Certificate of Analysis

Certificate of Analysis

Client: Ashton Bennett Ltd

Project: 23110652

Quote: BEC231132230 V2.1

Project Ref: 3535

Site: Woodlands

Contact: Frances Bennett

Address: Unit L Bridge Mills
Huddersfield Road,
Holmfirth
HD9 2NH

E-Mail: fabennett@ashton-bennett.co.uk

Phone: 07771706074

No. Samples Received: 7

Date Received: 07/11/2023

Analysis Date: 21/11/2023

Date Issued: 22/11/2023

Report Type: Final Version 01

This report supersedes any versions previously issued by the laboratory



Reported by Customer Service Co-Ordinator
Julie Dickinson
01283 554496



Client: Ashton Bennett Ltd
Project Name: 3535-Woodlands
Project No: 23110652
Date Issued: 22/11/2023

Samples Analysed

<u>Text ID</u>	<u>Sample Reference</u>	<u>Sampling Date</u>	<u>Sample Type</u>	<u>Sample Description</u>
23110652-001	35/1	01/11/2023 11:30:00	SOLID	Soil Sample
23110652-002	35/1	01/11/2023 11:30:00	SOLID	Soil Sample
23110652-003	35/2	01/11/2023 11:30:00	SOLID	Soil Sample
23110652-004	35/2	01/11/2023 11:30:00	SOLID	Soil Sample
23110652-005	35/3	01/11/2023 11:30:00	SOLID	Soil Sample
23110652-006	35/3	01/11/2023 11:30:00	SOLID	Soil Sample
23110652-007	35/4	01/11/2023 11:30:00	SOLID	Soil Sample

Analysis Results

Analysis	Method Code	MDL	Units	Accred.	Sample ID	001	002	003	004	005	006	007
					Customer ID	35/1	35/1	35/2	35/2	35/3	35/3	35/4
					Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
					Sampling Date	01/11/2023	01/11/2023	01/11/2023	01/11/2023	01/11/2023	01/11/2023	01/11/2023
Lead as Pb	ICPMSS	0.7	mg/kg^	UM		165.6		222.9		99.5		116.2
Acenaphthene	PAHMSUS	0.08	mg/kg^	UM			0.28		0.27		0.19	
Acenaphthylene	PAHMSUS	0.08	mg/kg^	U			<0.11		0.34		<0.10	
Anthracene	PAHMSUS	0.08	mg/kg^	U			0.64		2.34		0.41	
Benzo[a]anthracene	PAHMSUS	0.08	mg/kg^	UM			1.24		15.0		1.01	
Benzo[a]pyrene	PAHMSUS	0.08	mg/kg^	UM			1.12		13.4		0.88	
Benzo[b]fluoranthene	PAHMSUS	0.08	mg/kg^	UM			1.18		15.0		0.97	
Benzo[g,h,i]perylene	PAHMSUS	0.08	mg/kg^	UM			0.53		4.90		0.41	
Benzo[k]fluoranthene	PAHMSUS	0.08	mg/kg^	UM			0.53		5.60		0.40	
Chrysene	PAHMSUS	0.08	mg/kg^	UM			1.40		16.9		1.12	
Dibenzo[a,h]anthracene	PAHMSUS	0.08	mg/kg^	UM			0.17		1.84		0.13	
Fluoranthene	PAHMSUS	0.08	mg/kg^	UM			2.98		35.3		2.53	
Fluorene	PAHMSUS	0.08	mg/kg^	UM			0.21		0.41		0.12	
Indeno[1,2,3-cd]pyrene	PAHMSUS	0.08	mg/kg^	UM			0.70		7.04		0.54	
Naphthalene	PAHMSUS	0.08	mg/kg^	UM			0.21		0.13		0.15	
Phenanthrene	PAHMSUS	0.08	mg/kg^	UM			2.01		12.3		1.48	
Pyrene	PAHMSUS	0.08	mg/kg^	UM			2.66		32.3		2.24	
Total PAH 16	PAHMSUS	1.28	mg/kg^	U			16.0		163		12.7	
Total Moisture at 35°C	CLANDPREP	0.1	%	N		16.0	28.3	19.5	27.3	29.3	21.9	28.2



Client: Ashton Bennett Ltd
 Project Name: 3535-Woodlands
 Project No: 23110652
 Date Issued: 22/11/2023



Analysis Results

					Sample ID	001	002	003	004	005	006	007
					Customer ID	35/1	35/1	35/2	35/2	35/3	35/3	35/4
					Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
					Sampling Date	01/11/2023	01/11/2023	01/11/2023	01/11/2023	01/11/2023	01/11/2023	01/11/2023
Analysis	Method Code	MDL	Units	Accred.								
Colour of Material	CLANDPREP		-	N	Brown/Black	Brown/Black	Brown/Black	Brown/Black	Brown/Black	Brown/Black	Brown/Black	Brown/Black
Major Constituents	CLANDPREP		-	N	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY	CLAY
Minor Constituents	CLANDPREP		-	N	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel
Miscellaneous Constituents	CLANDPREP		-	N	Organic Matter	Organic Matter	Organic Matter	Organic Matter	Organic Matter	Organic Matter	Organic Matter	Organic Matter



Client: Ashton Bennett Ltd
Project Name: 3535-Woodlands
Project No: 23110652
Date Issued: 22/11/2023

Deviating Sample Report

All samples received in an appropriate condition with no deviancies noted with the samples.

Analysis Method

<u>Method Code</u>	<u>Method Description</u>	<u>Analysis Method</u>
CLANDPREP	DW35 - CLand Prep and Dry Weight Correction to 35°C	As Received
CLANDPREP	Solid Material Description	As Received
ICPMSS	Lead in Solids by ICPMS	Air Dried & Ground
PAHMSUS	16 PAHs by GCMS	As Received

Result Report Notes

Letters alongside results signify that the result has associated report notes.
The report notes are as follows:

<u>Letter</u>	<u>Note</u>
A	Due to the matrix of the sample the laboratory has had to deviate from our standard protocols to be able to process the sample and provide a result. Where applicable the accreditation has been removed and this should be taken into consideration when utilising the data.
B	The QC associated with this result has not wholly met the QMS requirements, the accreditation has therefore been removed. However, the Laboratory has confidence in the performance of the method as a whole and that the integrity of the data has not been significantly compromised.
C	Due to matrix interference, the internal standard and/or surrogate has not met the QMS requirements. This should be taken into consideration when utilising the data.
D	A non-standard volume or mass has been used for this test which has resulted in a raised detection limit.
E	Due to the parameter value being beyond our calibration range (and following the maximum size of dilution allowed, where applicable), the result cannot be quantified and as such the result will appear as a greater than symbol (>) with the accreditation removed. This data should be used for indicative purposes only.
F	Based on the sample history, appearance and smell a dilution was applied prior to testing. Unfortunately, the result is either above (>) or below (<) our calibration range. Results above our calibration range have accreditation removed. The data should be used for indicative purposes only.
G	The day 5 oxygen reading was below the capability of the instrument to detect, and therefore the calculated BOD has been reported unaccredited for guidance purposes only.

HWOL Acronym Key

<u>Acronym</u>	<u>Description</u>
HS	Headspace Analysis
EH	Extractable Hydrocarbons - i.e everything extracted by the solvent(s)
CU	Clean up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
+	Operator to indicate cumulative e.g. EH_CU+HS_1D_Total



Client: Ashton Bennett Ltd
Project Name: 3535-Woodlands
Project No: 23110652
Date Issued: 22/11/2023

Additional Information

This report refers to samples as received. SOCOTEC UK Ltd takes no responsibility for accuracy or competence of sampling by others.

Results within this report relate only to the samples tested.

The accreditation codes are as follows:

U = UKAS accredited analysis
M = MCERT accredited analysis
N = Unaccredited analysis

Any units marked with ^ signify results are reported on a dry weight basis of 35 °C.

All Air Dried and Ground Samples (ADG) are oven dried at less than 35 °C.

This report shall not be reproduced except in full, without written approval of the laboratory.

Opinions and interpretations given are outside the scope of our UKAS accreditation.

Any samples marked with * are not covered by our scope of UKAS accreditation. If applicable, further report notes have been added.

Any solid samples where the Major Constituents are not one of the following (Sand, Silt, Clay, Made Ground) are not one of our accredited matrix types.

Any samples marked with ‡ have had MCERTS accreditation removed for this result

Any samples marked with a tick in the deviant table is deviant for the specific reason.

Any samples reported as IS, NA, ND mean the following:

IS = Insufficient Sample to complete analysis
NA = Sample is not amenable for the required analysis
ND = Results cannot be determined

Items listed with a 'SUB' method code prefix have been carried out by an external subcontracted laboratory.

Our deviating sample report does not include deviancy information for Subcontracted analysis. Please see the report from the subcontracted lab for information regarding any deviancies for this analysis.

Summaries of analysis methods are available upon request.

End of Certificate of Analysis

