

Envirolab Job Number: 18/04126

Client Project Name: Talbot Mill

Client Project Ref: 11264

Lab Sample ID	18/04126/3	18/04126/4	18/04126/6	18/04126/7	18/04126/10	18/04126/13	18/04126/16	18/04126/17	Units	Method ref
Client Sample No										
Client Sample ID	JBH01	JBH02	JBH03	JBH04	JTP31	JTP31A	JTP30	JTP30		
Depth to Top	1.40	0.00	1.10	0.30	0.80	3.00	0.35	0.60		
Depth To Bottom	1.70	1.00	1.30	0.90	1.10	3.20	0.40	0.70		
Date Sampled	16-May-18	15-May-18	17-May-18	15-May-18	14-May-18	14-May-18	15-May-18	15-May-18		
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES		
Sample Matrix Code	1A	4AB	4A	4A	1	4B	4A	4AB		
TPH CWG										
Ali >C5-C6 _A [#]	<0.01	-	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	A-T-022s
Ali >C6-C8 _A [#]	<0.01	-	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	A-T-022s
Ali >C8-C10 _A ^{M#}	<1	-	-	<1	<1	<1	-	2	mg/kg	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	-	-	1	<1	<1	-	2	mg/kg	A-T-055s
Ali >C12-C16 _A ^{M#}	<1	-	-	4	<1	<1	-	5	mg/kg	A-T-055s
Ali >C16-C21 _A ^{M#}	<1	-	-	4	<1	2	-	7	mg/kg	A-T-055s
Ali >C21-C35 _A ^{M#}	<1	-	-	4	<1	9	-	18	mg/kg	A-T-055s
Total Aliphatics >C5-C35 _A [#]	<1	-	-	13	<1	12	-	33	mg/kg	A-T-055s
Aro >C5-C7 _A [#]	<0.01	-	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	A-T-022s
Aro >C7-C8 _A [#]	<0.01	-	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	A-T-022s
Aro >C8-C10 _A ^{M#}	<1	-	-	4	<1	2	-	6	mg/kg	A-T-055s
Aro >C10-C12 _A ^{M#}	<1	-	-	39	<1	2	-	6	mg/kg	A-T-055s
Aro >C12-C16 _A ^{M#}	<1	-	-	153	<1	5	-	17	mg/kg	A-T-055s
Aro >C16-C21 _A ^{M#}	<1	-	-	282	<1	13	-	24	mg/kg	A-T-055s
Aro >C21-C35 _A ^{M#}	<1	-	-	379	<1	75	-	239	mg/kg	A-T-055s
Total Aromatics >C5-C35 _A [#]	<1	-	-	857	<1	95	-	292	mg/kg	A-T-055s
TPH (Ali & Aro >C5-C35) _A [#]	<1	-	-	870	<1	108	-	325	mg/kg	A-T-055s
BTEX - Benzene _A [#]	<0.01	-	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	A-T-022s
BTEX - Toluene _A [#]	<0.01	-	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	-	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	-	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	A-T-022s
BTEX - o Xylene _A [#]	<0.01	-	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	A-T-022s
MTBE _A [#]	<0.01	-	-	<0.01	<0.01	<0.01	-	<0.01	mg/kg	A-T-022s

Envirolab Job Number: 18/04126

Client Project Name: Talbot Mill

Client Project Ref: 11264

Lab Sample ID	18/04126/24	18/04126/27								
Client Sample No										
Client Sample ID	JTP25	JTP24								
Depth to Top	0.15	0.80								
Depth To Bottom	0.25	1.00								
Date Sampled	16-May-18	16-May-18								
Sample Type	Soil - ES	Soil - ES								
Sample Matrix Code	4A	4A								
	Units								Method ref	
% Stones >10mm _A	13.5	15.6							% w/w	A-T-044
pH _D ^{M#}	7.81	8.00							pH	A-T-031s
Sulphate (water sol 2:1) _D ^{M#}	<0.01	<0.01							g/l	A-T-026s
Sulphate (acid soluble) _D ^{M#}	390	210							mg/kg	A-T-028s
Total Organic Carbon _D ^{M#}	-	3.85							% w/w	A-T-032s
Arsenic _D ^{M#}	20	-							mg/kg	A-T-024s
Cadmium _D ^{M#}	1.7	-							mg/kg	A-T-024s
Copper _D ^{M#}	241	-							mg/kg	A-T-024s
Chromium _D ^{M#}	20	-							mg/kg	A-T-024s
Chromium (hexavalent) _D	<1	-							mg/kg	A-T-040s
Lead _D ^{M#}	430	-							mg/kg	A-T-024s
Mercury _D	0.68	-							mg/kg	A-T-024s
Nickel _D ^{M#}	35	-							mg/kg	A-T-024s
Selenium _D ^{M#}	<1	-							mg/kg	A-T-024s
Zinc _D ^{M#}	425	-							mg/kg	A-T-024s
Leachate Prep BS EN 12457-1 (2:1) (1 no) _A	-	*								A-T-001
Arsenic (leachable) _A [#]	-	1							µg/l	A-T-025w
Cadmium (leachable) _A [#]	-	<1							µg/l	A-T-025w
Copper (leachable) _A [#]	-	5							µg/l	A-T-025w
Chromium (leachable) _A [#]	-	11							µg/l	A-T-025w
Lead (leachable) _A [#]	-	8							µg/l	A-T-025w
Mercury (leachable) _A [#]	-	<0.1							µg/l	A-T-025w
Nickel (leachable) _A [#]	-	<1							µg/l	A-T-025w
Selenium (leachable) _A [#]	-	<1							µg/l	A-T-025w
Zinc (leachable) _A [#]	-	12							µg/l	A-T-025w

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Lab Sample ID	18/04126/24	18/04126/27							Units	Method ref
Client Sample No										
Client Sample ID	JTP25	JTP24								
Depth to Top	0.15	0.80								
Depth To Bottom	0.25	1.00								
Date Sampled	16-May-18	16-May-18								
Sample Type	Soil - ES	Soil - ES								
Sample Matrix Code	4A	4A								
Asbestos in Soil (inc. matrix)										
Asbestos in soil _A [#]	NAD	NAD								A-T-045
Asbestos ACM - Suitable for Water Absorption Test?	N/A	N/A								

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Lab Sample ID	18/04126/24	18/04126/27							Units	Method ref
Client Sample No										
Client Sample ID	JTP25	JTP24								
Depth to Top	0.15	0.80								
Depth To Bottom	0.25	1.00								
Date Sampled	16-May-18	16-May-18								
Sample Type	Soil - ES	Soil - ES								
Sample Matrix Code	4A	4A								
PAH-16MS										
Acenaphthene _A ^{M#}	0.68	-							mg/kg	A-T-019s
Acenaphthylene _A ^{M#}	0.08	-							mg/kg	A-T-019s
Anthracene _A ^{M#}	1.07	-							mg/kg	A-T-019s
Benzo(a)anthracene _A ^{M#}	3.93	-							mg/kg	A-T-019s
Benzo(a)pyrene _A ^{M#}	3.29	-							mg/kg	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	4.06	-							mg/kg	A-T-019s
Benzo(ghi)perylene _A ^{M#}	1.50	-							mg/kg	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	1.46	-							mg/kg	A-T-019s
Chrysene _A ^{M#}	4.38	-							mg/kg	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	0.41	-							mg/kg	A-T-019s
Fluoranthene _A ^{M#}	8.07	-							mg/kg	A-T-019s
Fluorene _A ^{M#}	0.43	-							mg/kg	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	1.61	-							mg/kg	A-T-019s
Naphthalene _A ^{M#}	0.04	-							mg/kg	A-T-019s
Phenanthrene _A ^{M#}	6.94	-							mg/kg	A-T-019s
Pyrene _A ^{M#}	8.16	-							mg/kg	A-T-019s
Total PAH-16MS _A ^{M#}	46.1	-							mg/kg	A-T-019s

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Lab Sample ID	18/04126/24	18/04126/27								
Client Sample No										
Client Sample ID	JTP25	JTP24								
Depth to Top	0.15	0.80								
Depth To Bottom	0.25	1.00								
Date Sampled	16-May-18	16-May-18								
Sample Type	Soil - ES	Soil - ES								
Sample Matrix Code	4A	4A								
TPH CWG										
Ali >C5-C6 _A [#]	<0.01	-							mg/kg	A-T-022s
Ali >C6-C8 _A [#]	<0.01	-							mg/kg	A-T-022s
Ali >C8-C10 _A ^{M#}	<1	-							mg/kg	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	-							mg/kg	A-T-055s
Ali >C12-C16 _A ^{M#}	1	-							mg/kg	A-T-055s
Ali >C16-C21 _A ^{M#}	2	-							mg/kg	A-T-055s
Ali >C21-C35 _A ^{M#}	4	-							mg/kg	A-T-055s
Total Aliphatics >C5-C35 _A [#]	7	-							mg/kg	A-T-055s
Aro >C5-C7 _A [#]	<0.01	-							mg/kg	A-T-022s
Aro >C7-C8 _A [#]	<0.01	-							mg/kg	A-T-022s
Aro >C8-C10 _A ^{M#}	2	-							mg/kg	A-T-055s
Aro >C10-C12 _A ^{M#}	2	-							mg/kg	A-T-055s
Aro >C12-C16 _A ^{M#}	16	-							mg/kg	A-T-055s
Aro >C16-C21 _A ^{M#}	65	-							mg/kg	A-T-055s
Aro >C21-C35 _A ^{M#}	157	-							mg/kg	A-T-055s
Total Aromatics >C5-C35 _A [#]	242	-							mg/kg	A-T-055s
TPH (Ali & Aro >C5-C35) _A [#]	248	-							mg/kg	A-T-055s
BTEX - Benzene _A [#]	<0.01	-							mg/kg	A-T-022s
BTEX - Toluene _A [#]	<0.01	-							mg/kg	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	-							mg/kg	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	-							mg/kg	A-T-022s
BTEX - o Xylene _A [#]	<0.01	-							mg/kg	A-T-022s
MTBE _A [#]	<0.01	-							mg/kg	A-T-022s

REPORT NOTES

General:

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

All samples contained within this report, and any received with the same delivery, will be disposed of one month after the date of this report.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure and there is insufficient sample to repeat the analysis. These are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

Soil chemical analysis:

All results are reported as dry weight (<40 °C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed.

Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 18/10434
Issue Number: 1

Date: 17 December, 2018

Client: RSK Environment Ltd Manchester
Fourways House
57 Hilton Street
Manchester
Lancashire
UK
M1 2EJ

Project Manager: Emma Hobbs
Project Name: Talbot Mill
Project Ref: 11264
Order No: N/A
Date Samples Received: 30/11/18
Date Instructions Received: 11/12/18
Date Analysis Completed: 17/12/18

Prepared by:



Melanie Marshall
Laboratory Coordinator

Approved by:



Iain Haslock
Analytical Consultant

Envirolab Job Number: 18/10434

Client Project Name: Talbot Mill

Client Project Ref: 11264

Lab Sample ID	18/10434/1	18/10434/2	18/10434/3	18/10434/5	18/10434/6				Units	Method ref
Client Sample No										
Client Sample ID	JTP11	JTP11	JTP13	JTP14	JTP14					
Depth to Top	0.50	0.10	0.50	0.30	0.50					
Depth To Bottom	0.60	0.25	0.60	0.35	0.70					
Date Sampled	28-Nov-18	28-Nov-18	27-Nov-18	30-Nov-18	30-Nov-18					
Sample Type	Soil	Soil	Soil	Soil	Soil					
Sample Matrix Code	1A	4A	4A	4A	5A					
% Stones >10mm _A	10.0	5.0	10.7	22.5	40.1				% w/w	A-T-044
pH _D ^{M#}	7.48	7.65	7.95	7.57	7.99				pH	A-T-031s
Chloride (water sol 2:1) _D ^{M#}	12	-	66	38	<10				mg/kg	A-T-026s
Sulphate (water sol 2:1) _D ^{M#}	0.06	-	0.03	1.12	0.04				g/l	A-T-026s
Sulphur (total) _D	75	-	112	2290	96				mg/kg	A-T-024s
Cyanide (total) _A ^{M#}	-	-	-	2	-				mg/kg	A-T-042sTCN
Total Organic Carbon _D ^{M#}	-	0.61	-	-	-				% w/w	A-T-032s
Arsenic _D ^{M#}	-	<1	-	5	-				mg/kg	A-T-024s
Cadmium _D ^{M#}	-	0.9	-	1.4	-				mg/kg	A-T-024s
Copper _D ^{M#}	-	13	-	65	-				mg/kg	A-T-024s
Chromium _D ^{M#}	-	10	-	18	-				mg/kg	A-T-024s
Chromium (hexavalent) _D	-	-	-	<1	-				mg/kg	A-T-040s
Lead _D ^{M#}	-	44	-	175	-				mg/kg	A-T-024s
Mercury _D	-	<0.17	-	<0.17	-				mg/kg	A-T-024s
Nickel _D ^{M#}	-	10	-	13	-				mg/kg	A-T-024s
Selenium _D [#]	-	<1	-	<1	-				mg/kg	A-T-024s
Zinc _D ^{M#}	-	30	-	264	-				mg/kg	A-T-024s

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Lab Sample ID	18/10434/1	18/10434/2	18/10434/3	18/10434/5	18/10434/6				Units	Method ref
Client Sample No										
Client Sample ID	JTP11	JTP11	JTP13	JTP14	JTP14					
Depth to Top	0.50	0.10	0.50	0.30	0.50					
Depth To Bottom	0.60	0.25	0.60	0.35	0.70					
Date Sampled	28-Nov-18	28-Nov-18	27-Nov-18	30-Nov-18	30-Nov-18					
Sample Type	Soil	Soil	Soil	Soil	Soil					
Sample Matrix Code	1A	4A	4A	4A	5A					
Asbestos in Soil (inc. matrix)										
Asbestos in soil [#]	-	NAD	-	-	-					A-T-045
Asbestos ACM - Suitable for Water Absorption Test?	-	N/A	-	-	-					

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Lab Sample ID	18/10434/1	18/10434/2	18/10434/3	18/10434/5	18/10434/6				Units	Method ref
Client Sample No										
Client Sample ID	JTP11	JTP11	JTP13	JTP14	JTP14					
Depth to Top	0.50	0.10	0.50	0.30	0.50					
Depth To Bottom	0.60	0.25	0.60	0.35	0.70					
Date Sampled	28-Nov-18	28-Nov-18	27-Nov-18	30-Nov-18	30-Nov-18					
Sample Type	Soil	Soil	Soil	Soil	Soil					
Sample Matrix Code	1A	4A	4A	4A	5A					
PAH-16MS										
Acenaphthene _A ^{M#}	-	0.11	-	1.73	-				mg/kg	A-T-019s
Acenaphthylene _A ^{M#}	-	0.03	-	0.47	-				mg/kg	A-T-019s
Anthracene _A ^{M#}	-	0.21	-	5.98	-				mg/kg	A-T-019s
Benzo(a)anthracene _A ^{M#}	-	0.40	-	5.08	-				mg/kg	A-T-019s
Benzo(a)pyrene _A ^{M#}	-	0.37	-	3.29	-				mg/kg	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	-	0.42	-	3.42	-				mg/kg	A-T-019s
Benzo(ghi)perylene _A ^{M#}	-	0.25	-	1.36	-				mg/kg	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	-	0.15	-	1.26	-				mg/kg	A-T-019s
Chrysene _A ^{M#}	-	0.40	-	4.20	-				mg/kg	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	-	0.05	-	0.37	-				mg/kg	A-T-019s
Fluoranthene _A ^{M#}	-	1.00	-	14.9	-				mg/kg	A-T-019s
Fluorene _A ^{M#}	-	0.14	-	5.28	-				mg/kg	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	-	0.28	-	1.77	-				mg/kg	A-T-019s
Naphthalene _A ^{M#}	-	0.07	-	5.82	-				mg/kg	A-T-019s
Phenanthrene _A ^{M#}	-	0.82	-	26.9	-				mg/kg	A-T-019s
Pyrene _A ^{M#}	-	0.83	-	13.7	-				mg/kg	A-T-019s
Total PAH-16MS _A ^{M#}	-	5.53	-	95.5	-				mg/kg	A-T-019s

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Lab Sample ID	18/10434/1	18/10434/2	18/10434/3	18/10434/5	18/10434/6				Units	Method ref
Client Sample No										
Client Sample ID	JTP11	JTP11	JTP13	JTP14	JTP14					
Depth to Top	0.50	0.10	0.50	0.30	0.50					
Depth To Bottom	0.60	0.25	0.60	0.35	0.70					
Date Sampled	28-Nov-18	28-Nov-18	27-Nov-18	30-Nov-18	30-Nov-18					
Sample Type	Soil	Soil	Soil	Soil	Soil					
Sample Matrix Code	1A	4A	4A	4A	5A					
TPH CWG										
Ali >C5-C6 _A [#]	-	<0.01	-	-	-				mg/kg	A-T-022s
Ali >C6-C8 _A [#]	-	<0.01	-	-	-				mg/kg	A-T-022s
Ali >C8-C10 _A ^{M#}	-	<1	-	-	-				mg/kg	A-T-055s
Ali >C10-C12 _A ^{M#}	-	<1	-	-	-				mg/kg	A-T-055s
Ali >C12-C16 _A ^{M#}	-	<1	-	-	-				mg/kg	A-T-055s
Ali >C16-C21 _A ^{M#}	-	<1	-	-	-				mg/kg	A-T-055s
Ali >C21-C35 _A	-	18	-	-	-				mg/kg	A-T-055s
Total Aliphatics _A	-	18	-	-	-				mg/kg	A-T-055s
Aro >C5-C7 _A [#]	-	<0.01	-	-	-				mg/kg	A-T-022s
Aro >C7-C8 _A [#]	-	<0.01	-	-	-				mg/kg	A-T-022s
Aro >C8-C10 _A ^{M#}	-	2	-	-	-				mg/kg	A-T-055s
Aro >C10-C12 _A ^{M#}	-	<1	-	-	-				mg/kg	A-T-055s
Aro >C12-C16 _A	-	2	-	-	-				mg/kg	A-T-055s
Aro >C16-C21 _A ^{M#}	-	6	-	-	-				mg/kg	A-T-055s
Aro >C21-C35 _A ^{M#}	-	59	-	-	-				mg/kg	A-T-055s
Total Aromatics _A	-	68	-	-	-				mg/kg	A-T-055s
TPH (Ali & Aro >C5-C35) _A	-	86	-	-	-				mg/kg	A-T-055s
BTEX - Benzene _A [#]	-	<0.01	-	-	-				mg/kg	A-T-022s
BTEX - Toluene _A [#]	-	<0.01	-	-	-				mg/kg	A-T-022s
BTEX - Ethyl Benzene _A [#]	-	<0.01	-	-	-				mg/kg	A-T-022s
BTEX - m & p Xylene _A [#]	-	<0.01	-	-	-				mg/kg	A-T-022s
BTEX - o Xylene _A [#]	-	<0.01	-	-	-				mg/kg	A-T-022s
MTBE _A [#]	-	<0.01	-	-	-				mg/kg	A-T-022s

REPORT NOTES

General:

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

All samples contained within this report, and any received with the same delivery, will be disposed of one month after the date of this report.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed.

Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.



APPENDIX F

CERTIFICATES OF GEOTECHNICAL ANALYSIS



STRUCTURAL SOILS LTD

TEST REPORT



Report No. 783202 R1

1774

Date Contract Talbot Mill

Client RSK Environment Ltd
Address Spring Lodge
172 Chester Road
Helsby
Cheshire WA6 0AR

For the Attention of Emma Hobbs

Samples submitted by client	06/06/2018	Client Reference	11264
Testing Started	13/06/2018	Client Order No.	
Testing Completed	16/07/2018	Instruction Type	Written

Tests marked 'Not UKAS Accredited' in this report are not included in the UKAS Accreditation Schedule for our Laboratory.

Ukas Accredited Tests Underatken

Moisture Content (oven drying method) BS1377:Part 2:1990,clause 3.2 (superseded)**
Water content in accordance with BS EN ISO 17892-1:2014
Liquid Limit (one point method) BS1377:Part 2:1990,clause 4.4
Plastic Limit BS1377:Part 2:1990,clause 5.3
Plasticity Index Derivation BS1377:Part 2:1990,clause 5.4
Particle Size Distribution wet sieve method BS1377:Part 2:1990,clause 9.2
California Bearing Ratio BS1377:Part 4:1990,clause 7.4

Ukas Accredited Tests Underatken

Point Load Index ISRM:2007
Unconfined Compressive Strength - load controlled method ISRM:2007

* This clause of BS1377 is no longer the most up to date method due to the publication of ISO17892

Please Note: Remaining samples will be retained for a period of one month from today and will then be disposed of.

Test were undertaken on samples 'as received' unless otherwise stated.

Opinions and interpretations expressed in this report are outside the scope of accreditation for this laboratory.

Structural Soils Ltd, The Potteries, Pottery Street, Castleford, WF10 1NJ Tel.01977 552255. E-mail mark.athorne@soils.co.uk

SUMMARY OF SOIL CLASSIFICATION TESTS

In accordance with clauses 3.2,4.3,4.4,5.3,5.4,7.2,8.2,8.3 of BS1377:Part 2:1990

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Moisture Content %	Liquid Limit %	Plastic Limit %	Plasticity Index	% <425um	Description of Sample
JBH01	1	B	1.40	13					Red brown clayey slightly gravelly SAND
JBH02	2	B	4.80	13					Red brown slightly silty slightly gravelly SAND
JBH04	1	B	1.20	5.9					Brown slightly silty very gravelly SAND
JBH04	2	B	2.00	21					Brown clayey very sandy GRAVEL
JTP06	1	D	0.80	23	36	20	16	88	Grey brown slightly sandy slightly gravelly CLAY
JTP31	1	B	1.50	8.1					Orange brown silty gravelly SAND



STRUCTURAL
SOILS LTD

Contract:

Talbot Mill

Contract Ref:

783202

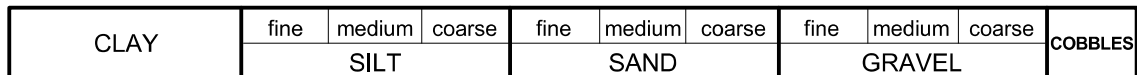


In accordance with BS EN ISO 17892-1 : 2014

		STRUCTURAL SOILS The Potteries Pottery Street Castleford W. Yorkshire WF10 1NJ	
Contract Ref:		783202	
Compiled By		Date	
[Redacted]		16.07.18	
Contract:		Talbot Mill	

In accordance with clauses 9.2 of BS1377:Part 2:1990

Depth (m): **1.40**



Particle Diameter (mm)	Percent Passing (%)
Sedimentation sample was not pre-treated	

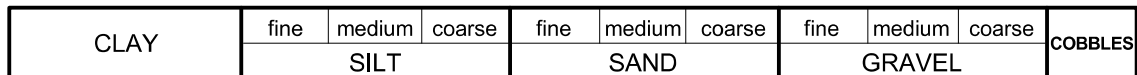
Soil Fraction	Sieve Percentage (%)
GRAVEL	2
SAND	86
SILT/CLAY	12

Red brown clayey slightly gravelly SAND



In accordance with clauses 9.2 of BS1377:Part 2:1990

Depth (m): **4.80**



Particle Diameter (mm)	Percent Passing (%)
Sedimentation sample was not pre-treated	

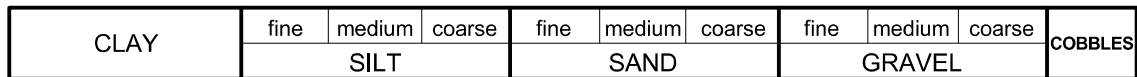
Soil Fraction	Sieve Percentage (%)
GRAVEL	7
SAND	89
SILT/CLAY	4

Red brown slightly silty slightly gravelly SAND



In accordance with clauses 9.2 of BS1377:Part 2:1990

Depth (m): **1.20**



Particle Diameter (mm)	Percent Passing (%)
Sedimentation sample was not pre-treated	

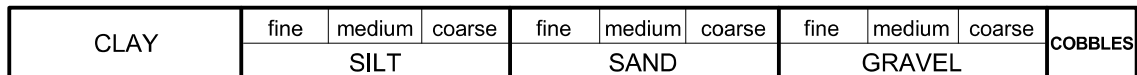
Soil Fraction	Sieve Percentage (%)
GRAVEL	72
SAND	25
SILT/CLAY	3

Brown slightly silty very gravelly SAND



In accordance with clauses 9.2 of BS1377:Part 2:1990

Depth (m): **2.00**



Particle Diameter (mm)	Percent Passing (%)
Sedimentation sample was not pre-treated	

Soil Fraction	Sieve Percentage (%)
GRAVEL	55
SAND	39
SILT/CLAY	6

Soil Description:
Brown clayey very sandy GRAVEL



Compiled By

Date _____

M. Fisher

MAUREEN FISHER

16/07/18

Contract

Talbot Mill

Contract Ref:

783202

