

APPENDIX I

Chemical Test Results

Appendix I(1)

Chemical Test Results GRM (2006) Investigation



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TEST REPORT No 10951

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Issue Date: 14 June 2006

CLIENT DETAILS

Client: GROUND RISK MANAGEMENT Ltd
Bretby Business Park
Ashby Road
Burton-upon-Trent
STAFFORDSHIRE
DE15 0YZ

Originator: T Rogers

JOB DETAILS

Order Ref: Verbal
Our Ref: 12032/1-4/s
Job Reference P3585
Site Reference Harpur Hill, Buxton

TEST REPORT No. 10951 (continued)**TESTING REQUIREMENTS****Date of Requisition****24/05/06**

<u>Client Sample Ref</u>	<u>EIAG Ref</u>	<u>Required Test(s)</u>	<u>Standard</u>		
P3585 Soil	12032 /				
TP6 @ 0.1-0.2m	1	{ Metal content analysis: As, Cd, Cr, Cu, Ni, Se Zn Hg, Pb	IHM	Y	N
TP18 @ 0.1-0.2m	2	{ FOC analysis	IHM	Y	Y
TP19 @ 0.1-0.2m	3	Speciated PAHs content analysis	IHM	N	N
TP20 @ 0.2-0.3m	4	Phenol Index content analysis	IHM	N	N
		Total cyanide content analysis	IHM	N	N
		Aq sulphate content analysis	IHM	N	N
		pH analysis	IHM	Y	N
TP19 @ 0.1-0.2m	3	{ Preparation of leachate Leachable Metals content Leachable speciated PAH content Leachable Phenol index content Leachable Cyanide content Leachable Sulphate content pH analysis	IHM	N	N
			IHM	N	N
			IHM	N	N
			IHM	N	N
			IHM	N	N
			IHM	N	N
			IHM	N	N
			IHM	N	N

IHM – In-house method, outline details previously supplied to the client
BS – British Standard

** indicates ISO17025 / MCERTS accreditation status*

Date of Completion of Testing**14/06/06**

TEST REPORT No. 10951 (continued)

SAMPLE DETAILS

Client Ref	EIAG Ref	Sample Description	Sampling date/time	Date received	Other comments
P3585	12032 /				
<i>Soil</i>					
TP6 @ 0.1-0.2m	1	Brown Loam, Stones, Roots	Unknown	24/05/06	-
TP18 @ 0.1-0.2m	2	Brown Loam, Stones, Roots	Unknown	24/05/06	-
TP19 @ 0.1-0.2m	3	Dark Brown Loam, Stones, Roots, Ash, Glass	Unknown	24/05/06	-
TP20 @ 0.2-0.3m	4	Brown Loam, Stones, Slate, Roots, Glass	Unknown	24/05/06	-

PREPARED SAMPLE DETAILS

Client Ref	EIAG Ref	Results of sieving over 2mm BS Test Sieve	
P3585	12032 /	Amount passing (%)	Description of retained material
<i>Soil</i>			
TP6 @ 0.1-0.2m	1	88.70	Stones, Roots
TP18 @ 0.1-0.2m	2	81.57	Stones, Roots
TP19 @ 0.1-0.2m	3	82.52	Stones, Roots, Glass
TP20 @ 0.2-0.3m	4	40.68	Stones, Roots, Slate, Glass

TEST REPORT No. 10951 (continued)**Results:** **TOTAL CONTAMINANT SUITE ANALYSIS – P3585**

<u>Parameter</u>	<u>TP6 @ 0.1-0.2m</u>	<u>TP18 @ 0.1-0.2m</u>	<u>TP19 @ 0.1-0.2m</u>	<u>TP20 @ 0.2-0.3m</u>
	(mg/kg) unless stated			
arsenic	11.68	18.32	37.28	19.53
cadmium	1.27	3.28	13.91	4.04
chromium	39.1	44.5	123.5	43.6
copper	27.8	38.7	330.5	579.8
mercury	0.20	0.15	0.17	1.60
nickel	24.8	38.9	96.0	41.3
lead	83.9	114.6	6202	587.6
selenium	0.78	0.81	0.73	0.99
zinc	142.5	291.4	7446	705.0
FOC (%)	4.47	2.21	3.35	3.62
phenols index	<0.01	0.06	0.12	0.30
Total cyanide	<1	<1	<1	<1
sulphate (g/l)	0.03	0.02	0.01	0.02
pH	6.72	6.34	6.90	7.13

Notes:

analysis performed on air-dried sample, results converted to oven-dried sample weight;
oven-dried = 16 hours minimum drying to constant weight at @ 105°C.

TEST REPORT No. 10951 (continued)**Results: PAH SPECIATION ANALYSIS – P3585**

<u>Species</u>	<u>TP6 @ 0.1- 0.2m</u>	<u>TP18 @ 0.1- 0.2m</u>	<u>TP19 @ 0.1- 0.2m</u>	<u>TP20 @ 0.2- 0.3m</u>
	(mg/kg)			
acenaphthene	<0.01	<0.01	<0.01	<0.01
acenaphthylene	<0.01	<0.01	<0.01	<0.01
anthracene	<0.01	<0.01	<0.01	<0.01
benzo(a)anthracene	<0.01	<0.01	<0.01	13.89
benzo(a)pyrene	<0.01	<0.01	<0.01	<0.01
benzo(b)fluoranthene	<0.01	<0.01	<0.01	<0.01
benzo(ghi)perylene	<0.01	<0.01	<0.01	<0.01
benzo(k)fluoranthene	3.09	1.52	<0.01	14.63
chrysene	2.63	<0.01	<0.01	27.95
dibenzo(ah)anthracene	<0.01	<0.01	<0.01	<0.01
fluoranthene	10.15	2.76	<0.01	17.64
fluorene	<0.01	<0.01	<0.01	<0.01
indeno(1,2,3-cd)pyrene	<0.01	<0.01	<0.01	<0.01
naphthalene	<0.01	<0.01	<0.01	<0.01
phenanthrene	<0.01	<0.01	<0.01	<0.01
pyrene	5.70	2.49	<0.01	21.07
EPA 16 TOTAL	21.57	6.77	<0.01	95.18

Notes:

analysis performed on sample as-received, results converted to oven-dried sample weight;
oven-dried = 16 hours minimum drying to constant weight at @ 105°C.

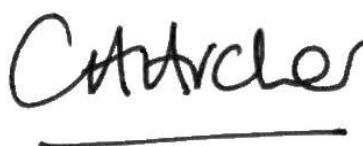
TEST REPORT No. 10951 (continued)

Results: LEACHATE SUITE ANALYSIS – P3585

<u>Parameter</u>	<u>TP19 @ 0.1-0.2m</u> (g/l unless stated)
arsenic	2.69
cadmium	0.41
chromium	11.11
copper	26.25
mercury	<0.01
nickel	4.68
lead	31.22
selenium	2.10
zinc	533.44
phenols index	<0.1
cyanide	<1
sulphate (mg/l)	<1
pH	7.47
benzo(a)pyrene	<0.001
benzo(b)fluoranthene	<0.001
benzo(k)fluoranthene	<0.001
benzo(ghi)perylene	<0.001
indeno(1,2,3-cd)pyrene	<0.001

Notes:

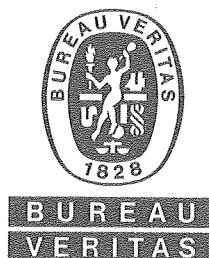
analysis performed on as-received sample.



C A Archer
Environmental Adviser
14th June 2006

END OF TEST REPORT

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Determination of Sulphate Content and pH Value

Client: Ground Risk Management Limited
 Site: Harpur Hill, Buxton

Report No: 50014386/06/1

Laboratory Reference	Location	Depth (m)	% Passing 2mm BS Test Sieve	pH Value	Water Soluble Sulphate Content (g/l)
45026928	TP2	0.50-0.70	100	7.2	0.04
45026929	STP1	0.30-0.50	100	7.4	0.05
45026930	TP8	0.30-0.50	100	6.7	0.08
45026931	TP16A	2.10-2.30	95	8.0	0.07
45026932	TP19	0.30-0.50	100	6.8	0.03
45026933	STP4	0.30-0.50	100	7.0	0.03
45026934	TP10	0.30-0.50	100	7.8	0.03
45026935	TP6	1.00-1.20	100	8.1	0.03
45026936	STP5	1.20-1.40	71	7.1	0.04
45026937	TP11	1.10-1.30	92	7.1	0.04

Comments: Sulphate Content expressed as SO₄

Certified that the laboratory testing was carried out in accordance with BS 1377-3: 1990: Method 5 and 9
 Tested by UKAS laboratory No. 451

Page: 3 of 3
 Date: 09.06.06

Signed:

[Signature]

☒ J. Cross - Section Manager

☐ D. Goddard - Laboratory Manager

For and on behalf of **Bureau Veritas Laboratories Limited**

Appendix I (2)

Chemical Test Results ALM (2017) Investigation



Exova Jones Environmental

Registered Address : Exova (UK) Ltd, Lochend Industrial Estate, Newbridge, Midlothian, EH28 8PL

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Zone 3
Deeside Industrial Park
Deeside
CH5 2UA

ALM Consult Limited
Paddock Business Centre
2 Paddock Road
West Pimbo
Skelmersdale
Lancashire
WN8 9PL

Tel: +44 (0) 1244 833780

Fax: +44 (0) 1244 833781



4225

Attention :	Alex Albion
Date :	12th September, 2017
Your reference :	30156
Our reference :	Test Report 17/14558 Batch 1
Location :	Burlow Rd Buxton (Site B)
Date samples received :	31st August, 2017
Status :	Final report
Issue :	1

Twenty one samples were received for analysis on 31st August, 2017 of which twenty one were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied. All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

Compiled By:

Bruce Leslie
Project Co-ordinator

Please see attached notes for all abbreviations and acronyms

Client Name: ALM Consult Limited
 Reference: 30156
 Location: Burlow Rd Buxton (Site B)
 Contact: Alex Albon
 JE Job No.: 17/14558

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	1	2	3	4	5	6	7	8	9	10	Please see attached notes for all abbreviations and acronyms		
Sample ID	TB101	TB104	TB105	TB106	TB107	TB108	TB109	TB110	TB111	TB112			
Depth	0.2	0.2	0.5	0.2	0.6	0.2	0.5	0.2	0.6	0.2			
COC No / misc													
Containers	J	J	J	J	J	J	J	J	J	J			
Sample Date	29/08/2017	29/08/2017	29/08/2017	29/08/2017	29/08/2017	29/08/2017	29/08/2017	29/08/2017	29/08/2017	29/08/2017			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	31/08/2017	31/08/2017	31/08/2017	31/08/2017	31/08/2017	31/08/2017	31/08/2017	31/08/2017	31/08/2017	31/08/2017	LOD/LOR	Units	Method No.
TPH CWG													
Aliphatics													
>C5-C6 #	<0.1	-	-	-	<0.1	-	-	<0.1	<0.1	-	<0.1	mg/kg	TM36/PM12
>C6-C8 #	<0.1	-	-	-	<0.1	-	-	<0.1	<0.1	-	<0.1	mg/kg	TM36/PM12
>C8-C10	<0.1	-	-	-	<0.1	-	-	<0.1	<0.1	-	<0.1	mg/kg	TM36/PM12
>C10-C12 #	<0.2	-	-	-	<0.2	-	-	<0.2	<0.2	-	<0.2	mg/kg	TM5/PM16
>C12-C16 #	<4	-	-	-	<4	-	-	<4	<4	-	<4	mg/kg	TM5/PM16
>C16-C21 #	<7	-	-	-	<7	-	-	<7	<7	-	<7	mg/kg	TM5/PM16
>C21-C35 #	<7	-	-	-	<7	-	-	54	<7	-	<7	mg/kg	TM5/PM16
Total aliphatics C5-35	<19	-	-	-	<19	-	-	54	<19	-	<19	mg/kg	TM5/PM16/PM12/PM10
Aromatics													
>C5-EC7 #	<0.1	-	-	-	<0.1	-	-	<0.1	<0.1	-	<0.1	mg/kg	TM36/PM12
>EC7-EC8 #	<0.1	-	-	-	<0.1	-	-	<0.1	<0.1	-	<0.1	mg/kg	TM36/PM12
>EC8-EC10 #	<0.1	-	-	-	<0.1	-	-	<0.1	<0.1	-	<0.1	mg/kg	TM36/PM12
>EC10-EC12 #	<0.2	-	-	-	<0.2	-	-	<0.2	<0.2	-	<0.2	mg/kg	TM5/PM16
>EC12-EC16 #	<4	-	-	-	<4	-	-	<4	<4	-	<4	mg/kg	TM5/PM16
>EC16-EC21 #	<7	-	-	-	<7	-	-	23	<7	-	<7	mg/kg	TM5/PM16
>EC21-EC35 #	<7	-	-	-	<7	-	-	112	<7	-	<7	mg/kg	TM5/PM16
Total aromatics C5-35 #	<19	-	-	-	<19	-	-	135	<19	-	<19	mg/kg	TM5/PM16/PM12/PM10
Total aliphatics and aromatics(C5-35)	<38	-	-	-	<38	-	-	189	<38	-	<38	mg/kg	TM5/PM16/PM12/PM10
MTBE #	<5	-	-	-	-	-	-	<5	-	-	<5	ug/kg	TM31/PM12
Benzene #	<5	-	-	-	-	-	-	<5	-	-	<5	ug/kg	TM31/PM12
Toluene #	<5	-	-	-	-	-	-	<5	-	-	<5	ug/kg	TM31/PM12
Ethylbenzene #	<5	-	-	-	-	-	-	<5	-	-	<5	ug/kg	TM31/PM12
m/p-Xylene #	<5	-	-	-	-	-	-	<5	-	-	<5	ug/kg	TM31/PM12
o-Xylene #	<5	-	-	-	-	-	-	<5	-	-	<5	ug/kg	TM31/PM12
Natural Moisture Content	36.3	48.1	38.7	57.4	21.8	52.3	23.4	55.6	23.0	50.3	<0.1	%	PM4/PM0
Sulphate as SO4 (2:1 Ext) #	-	-	0.0205	-	0.0165	-	0.0159	-	0.0245	-	<0.0015	g/l	TM38/PM20
Total Organic Carbon #	3.21	3.72	-	4.94	-	4.61	-	6.83	-	3.73	<0.02	%	TM21/PM24
pH #	7.42	6.64	7.42	6.59	6.79	5.98	6.97	7.12	6.94	6.38	<0.01	pH units	TM73/PM11

Client Name: ALM Consult Limited
Reference: 30156
Location: Burlow Rd Buxton (Site B)
Contact: Alex Albon
JE Job No.: 17/14558

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	11	12	13	14	15	16	17	18	19	20	Please see attached notes for all abbreviations and acronyms		
Sample ID	TB113	TB114	TB116	TB118	TB120	TB120	TB121	TB121	TB122	TB123			
Depth	0.5	0.2	0.8	0.2	0.1	0.4	0.2	0.6	0.2	0.2			
COC No / misc													
Containers	J	J	J	J	J	J	J	J	J	J			
Sample Date	29/08/2017	29/08/2017	29/08/2017	29/08/2017	29/08/2017	29/08/2017	29/08/2017	29/08/2017	29/08/2017	29/08/2017			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	31/08/2017	31/08/2017	31/08/2017	31/08/2017	31/08/2017	31/08/2017	31/08/2017	31/08/2017	31/08/2017	31/08/2017	LOD/LOR	Units	Method No.
Arsenic [#]	7.2	16.9	8.4	14.5	27.1	21.8	15.3	6.2	9.9	12.6	<0.5	mg/kg	TM30/PM15
Cadmium [#]	3.0	2.9	1.7	2.6	5.3	4.1	1.4	1.5	1.6	1.5	<0.1	mg/kg	TM30/PM15
Chromium [#]	91.1	85.0	40.7	90.0	88.6	83.4	66.6	65.3	54.5	68.6	<0.5	mg/kg	TM30/PM15
Copper [#]	30	37	22	36	61	151	28	18	32	25	<1	mg/kg	TM30/PM15
Lead [#]	41	140	42	120	121	376	93	21	87	90	<5	mg/kg	TM30/PM15
Mercury [#]	<0.1	0.2	<0.1	<0.1	0.2	1.2	0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM30/PM15
Nickel [#]	104.9	40.1	27.6	41.4	77.6	42.9	23.3	59.7	30.0	22.0	<0.7	mg/kg	TM30/PM15
Selenium [#]	2	2	<1	2	1	1	2	<1	<1	2	<1	mg/kg	TM30/PM15
Total Sulphate as SO4 [#]	199	-	-	-	-	-	-	182	-	-	<50	mg/kg	TM50/PM29
Water Soluble Boron [#]	0.3	1.6	0.4	1.5	1.0	1.8	1.1	0.2	0.4	1.2	<0.1	mg/kg	TM74/PM32
Zinc [#]	141	261	99	225	312	737	144	106	116	173	<5	mg/kg	TM30/PM15
PAH MS													
Naphthalene [#]	<0.04	<0.04	-	<0.04	<0.04	-	<0.04	-	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Acenaphthylene	<0.03	<0.03	-	<0.03	<0.03	-	<0.03	-	<0.03	<0.03	<0.03	mg/kg	TM4/PM8
Acenaphthene [#]	<0.05	<0.05	-	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	<0.05	mg/kg	TM4/PM8
Fluorene [#]	<0.04	<0.04	-	<0.04	<0.04	-	<0.04	-	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Phenanthrene [#]	<0.03	0.10	-	0.10	0.22	-	0.10	-	0.26	0.23	<0.03	mg/kg	TM4/PM8
Anthracene [#]	<0.04	<0.04	-	<0.04	0.07	-	<0.04	-	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Fluoranthene [#]	<0.03	0.24	-	0.29	0.77	-	0.24	-	0.40	0.59	<0.03	mg/kg	TM4/PM8
Pyrene [#]	<0.03	0.21	-	0.24	0.69	-	0.20	-	0.34	0.49	<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene [#]	<0.06	0.18	-	0.19	0.31	-	0.13	-	0.16	0.34	<0.06	mg/kg	TM4/PM8
Chrysene [#]	<0.02	0.16	-	0.15	0.43	-	0.13	-	0.20	0.34	<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene [#]	<0.07	0.22	-	0.25	0.87	-	0.21	-	0.32	0.47	<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene [#]	<0.04	0.11	-	0.12	0.47	-	0.13	-	0.19	0.26	<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene [#]	<0.04	0.08	-	0.10	0.32	-	0.08	-	0.12	0.18	<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene [#]	<0.04	<0.04	-	<0.04	0.07	-	<0.04	-	<0.04	<0.04	<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene [#]	<0.04	0.10	-	0.08	0.32	-	0.08	-	0.11	0.18	<0.04	mg/kg	TM4/PM8
PAH 16 Total	<0.6	1.4	-	1.5	4.5	-	1.3	-	2.1	3.1	<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	<0.05	0.16	-	0.18	0.63	-	0.15	-	0.23	0.34	<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	<0.02	0.06	-	0.07	0.24	-	0.06	-	0.09	0.13	<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	99	95	-	93	102	-	99	-	98	95	<0	%	TM4/PM8
Methyl Tertiary Butyl Ether [#]	-	-	-	-	-	-	-	-	-	-	<2	ug/kg	TM15/PM10
Benzene [#]	-	-	-	-	-	-	-	-	-	-	<3	ug/kg	TM15/PM10
Toluene [#]	-	-	-	-	-	-	-	-	-	-	<3	ug/kg	TM15/PM10
Ethylbenzene [#]	-	-	-	-	-	-	-	-	-	-	<3	ug/kg	TM15/PM10
p/m-Xylene [#]	-	-	-	-	-	-	-	-	-	-	<5	ug/kg	TM15/PM10
o-Xylene [#]	-	-	-	-	-	-	-	-	-	-	<3	ug/kg	TM15/PM10
Surrogate Recovery Toluene D8	-	-	-	-	-	-	-	-	-	-	<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	-	-	-	-	-	-	-	-	-	-	<0	%	TM15/PM10

Client Name: ALM Consult Limited
 Reference: 30156
 Location: Burlow Rd Buxton (Site B)
 Contact: Alex Albon
 JE Job No.: 17/14558

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	11	12	13	14	15	16	17	18	19	20	Please see attached notes for all abbreviations and acronyms		
Sample ID	TB113	TB114	TB116	TB118	TB120	TB120	TB121	TB121	TB122	TB123			
Depth	0.5	0.2	0.8	0.2	0.1	0.4	0.2	0.6	0.2	0.2			
COC No / misc													
Containers	J	J	J	J	J	J	J	J	J	J			
Sample Date	29/08/2017	29/08/2017	29/08/2017	29/08/2017	29/08/2017	29/08/2017	29/08/2017	29/08/2017	29/08/2017	29/08/2017			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	31/08/2017	31/08/2017	31/08/2017	31/08/2017	31/08/2017	31/08/2017	31/08/2017	31/08/2017	31/08/2017	31/08/2017	LOD/LOR	Units	Method No.
TPH CWG													
Aliphatics													
>C5-C6 #	-	-	-	-	-	<0.1	-	-	-	-	<0.1	mg/kg	TM36/PM12
>C6-C8 #	-	-	-	-	-	<0.1	-	-	-	-	<0.1	mg/kg	TM36/PM12
>C8-C10	-	-	-	-	-	<0.1	-	-	-	-	<0.1	mg/kg	TM36/PM12
>C10-C12 #	-	-	-	-	-	<0.2	-	-	-	-	<0.2	mg/kg	TM5/PM16
>C12-C16 #	-	-	-	-	-	<4	-	-	-	-	<4	mg/kg	TM5/PM16
>C16-C21 #	-	-	-	-	-	29	-	-	-	-	<7	mg/kg	TM5/PM16
>C21-C35 #	-	-	-	-	-	302	-	-	-	-	<7	mg/kg	TM5/PM16
Total aliphatics C5-35	-	-	-	-	-	331	-	-	-	-	<19	mg/kg	TM5/PM16/PM12/PM10
Aromatics													
>C5-EC7 #	-	-	-	-	-	<0.1	-	-	-	-	<0.1	mg/kg	TM36/PM12
>EC7-EC8 #	-	-	-	-	-	<0.1	-	-	-	-	<0.1	mg/kg	TM36/PM12
>EC8-EC10 #	-	-	-	-	-	<0.1	-	-	-	-	<0.1	mg/kg	TM36/PM12
>EC10-EC12 #	-	-	-	-	-	<0.2	-	-	-	-	<0.2	mg/kg	TM5/PM16
>EC12-EC16 #	-	-	-	-	-	6	-	-	-	-	<4	mg/kg	TM5/PM16
>EC16-EC21 #	-	-	-	-	-	80	-	-	-	-	<7	mg/kg	TM5/PM16
>EC21-EC35 #	-	-	-	-	-	455	-	-	-	-	<7	mg/kg	TM5/PM16
Total aromatics C5-35 #	-	-	-	-	-	541	-	-	-	-	<19	mg/kg	TM5/PM16/PM12/PM10
Total aliphatics and aromatics(C5-35)	-	-	-	-	-	872	-	-	-	-	<38	mg/kg	TM5/PM16/PM12/PM10
MTBE #	-	-	-	-	-	<5	-	-	-	-	<5	ug/kg	TM31/PM12
Benzene #	-	-	-	-	-	<5	-	-	-	-	<5	ug/kg	TM31/PM12
Toluene #	-	-	-	-	-	<5	-	-	-	-	<5	ug/kg	TM31/PM12
Ethylbenzene #	-	-	-	-	-	<5	-	-	-	-	<5	ug/kg	TM31/PM12
m/p-Xylene #	-	-	-	-	-	<5	-	-	-	-	<5	ug/kg	TM31/PM12
o-Xylene #	-	-	-	-	-	<5	-	-	-	-	<5	ug/kg	TM31/PM12
Natural Moisture Content	26.2	59.2	20.1	69.4	27.1	54.3	51.0	25.0	25.5	52.5	<0.1	%	PM4/PM0
Sulphate as SO4 (2:1 Ext) #	0.0144	-	-	-	-	-	-	0.0162	-	-	<0.0015	g/l	TM38/PM20
Total Organic Carbon #	-	5.67	1.44	6.33	3.28	6.00	4.26	-	-	4.89	<0.02	%	TM21/PM24
pH #	7.46	6.50	7.97	6.61	7.83	7.62	6.44	7.40	7.98	7.43	<0.01	pH units	TM73/PM11

Client Name: ALM Consult Limited
Reference: 30156
Location: Burlow Rd Buxton (Site B)
Contact: Alex Albon
JE Job No.: 17/14558

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

J E Sample No.	21										Please see attached notes for all abbreviations and acronyms		
Sample ID	TB123												
Depth	0.4												
COC No / misc													
Containers	J												
Sample Date	29/08/2017												
Sample Type	Soil												
Batch Number	1												
Date of Receipt	31/08/2017										LOD/LOR	Units	Method No.
TPH CWG													
Aliphatics													
>C5-C6 #	-										<0.1	mg/kg	TM36/PM12
>C6-C8 #	-										<0.1	mg/kg	TM36/PM12
>C8-C10	-										<0.1	mg/kg	TM36/PM12
>C10-C12 #	-										<0.2	mg/kg	TM5/PM16
>C12-C16 #	-										<4	mg/kg	TM5/PM16
>C16-C21 #	-										<7	mg/kg	TM5/PM16
>C21-C35 #	-										<7	mg/kg	TM5/PM16
Total aliphatics C5-35	-										<19	mg/kg	TM5/PM16/PM12/PM10
Aromatics													
>C5-EC7 #	-										<0.1	mg/kg	TM36/PM12
>EC7-EC8 #	-										<0.1	mg/kg	TM36/PM12
>EC8-EC10 #	-										<0.1	mg/kg	TM36/PM12
>EC10-EC12 #	-										<0.2	mg/kg	TM5/PM16
>EC12-EC16 #	-										<4	mg/kg	TM5/PM16
>EC16-EC21 #	-										<7	mg/kg	TM5/PM16
>EC21-EC35 #	-										<7	mg/kg	TM5/PM16
Total aromatics C5-35 #	-										<19	mg/kg	TM5/PM16/PM12/PM10
Total aliphatics and aromatics(C5-35)	-										<38	mg/kg	TM5/PM16/PM12/PM10
MTBE #	-										<5	ug/kg	TM31/PM12
Benzene #	-										<5	ug/kg	TM31/PM12
Toluene #	-										<5	ug/kg	TM31/PM12
Ethylbenzene #	-										<5	ug/kg	TM31/PM12
m/p-Xylene #	-										<5	ug/kg	TM31/PM12
o-Xylene #	-										<5	ug/kg	TM31/PM12
Natural Moisture Content	28.9										<0.1	%	PM4/PM0
Sulphate as SO4 (2:1 Ext) #	0.0059										<0.0015	g/l	TM38/PM20
Total Organic Carbon #	-										<0.02	%	TM21/PM24
pH #	7.63										<0.01	pH units	TM73/PM11

Client Name: ALM Consult Limited
Reference: 30156
Location: Burlow Rd Buxton (Site B)
Contact: Alex Albon
JE Job No.: 17/14558

SVOC Report : Solid

J E Sample No.	5	7	9	13	16	18					Please see attached notes for all abbreviations and acronyms		
Sample ID	TB107	TB109	TB111	TB116	TB120	TB121							
Depth	0.6	0.5	0.6	0.8	0.4	0.6							
COC No / misc Containers	J	J	J	J	J	J							
Sample Date	29/08/2017	29/08/2017	29/08/2017	29/08/2017	29/08/2017	29/08/2017							
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil							
Batch Number	1	1	1	1	1	1							
Date of Receipt	31/08/2017	31/08/2017	31/08/2017	31/08/2017	31/08/2017	31/08/2017					LOD/LOR	Units	Method No.
SVOC MS													
Phenols													
2-Chlorophenol #	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
2-Methylphenol	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
2-Nitrophenol	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
2,4-Dichlorophenol #	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
2,4-Dimethylphenol	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
2,4,5-Trichlorophenol	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
2,4,6-Trichlorophenol	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
4-Chloro-3-methylphenol	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
4-Methylphenol	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
4-Nitrophenol	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
Pentachlorophenol	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
Phenol #	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
PAHs													
2-Chloronaphthalene #	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
2-Methylnaphthalene #	<10	<10	<10	<10	172	<10					<10	ug/kg	TM16/PM8
Naphthalene	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
Acenaphthylene	<10	<10	<10	126	159	<10					<10	ug/kg	TM16/PM8
Acenaphthene	<10	<10	<10	131	138	<10					<10	ug/kg	TM16/PM8
Fluorene	<10	<10	<10	179	85	<10					<10	ug/kg	TM16/PM8
Phenanthrene #	<10	<10	<10	3951	1977	<10					<10	ug/kg	TM16/PM8
Anthracene	<10	<10	<10	429	497	<10					<10	ug/kg	TM16/PM8
Fluoranthene #	<10	<10	<10	7495	6765	<10					<10	ug/kg	TM16/PM8
Pyrene #	<10	<10	<10	6026	6168	<10					<10	ug/kg	TM16/PM8
Benzo(a)anthracene	<10	<10	<10	2874	3523	<10					<10	ug/kg	TM16/PM8
Chrysene	<10	<10	<10	3486	3536	<10					<10	ug/kg	TM16/PM8
Benzo(bk)fluoranthene	<10	<10	<10	5764	6852	<10					<10	ug/kg	TM16/PM8
Benzo(a)pyrene	<10	<10	<10	3169	3784	<10					<10	ug/kg	TM16/PM8
Indeno(123cd)pyrene	<10	<10	<10	1581	2316	<10					<10	ug/kg	TM16/PM8
Dibenzo(ah)anthracene	<10	<10	<10	564	735	<10					<10	ug/kg	TM16/PM8
Benzo(ghi)perylene	<10	<10	<10	1694	2625	<10					<10	ug/kg	TM16/PM8
Benzo(b)fluoranthene	<10	<10	<10	4150	4933	<10					<10	ug/kg	TM16/PM8
Benzo(k)fluoranthene	<10	<10	<10	1614	1919	<10					<10	ug/kg	TM16/PM8
Phthalates													
Bis(2-ethylhexyl) phthalate	<100	<100	<100	<100	<100	<100					<100	ug/kg	TM16/PM8
Butylbenzyl phthalate	<100	<100	<100	<100	<100	<100					<100	ug/kg	TM16/PM8
Di-n-butyl phthalate	<100	<100	<100	<100	<100	<100					<100	ug/kg	TM16/PM8
Di-n-Octyl phthalate	<100	<100	<100	<100	<100	<100					<100	ug/kg	TM16/PM8
Diethyl phthalate	<100	<100	<100	<100	<100	<100					<100	ug/kg	TM16/PM8
Dimethyl phthalate #	<100	<100	<100	<100	<100	<100					<100	ug/kg	TM16/PM8

Client Name: ALM Consult Limited
Reference: 30156
Location: Burlow Rd Buxton (Site B)
Contact: Alex Albon
JE Job No.: 17/14558

SVOC Report : Solid

J E Sample No.	5	7	9	13	16	18					Please see attached notes for all abbreviations and acronyms		
Sample ID	TB107	TB109	TB111	TB116	TB120	TB121							
Depth	0.6	0.5	0.6	0.8	0.4	0.6							
COC No / misc Containers	J	J	J	J	J	J							
Sample Date	29/08/2017	29/08/2017	29/08/2017	29/08/2017	29/08/2017	29/08/2017							
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil							
Batch Number	1	1	1	1	1	1							
Date of Receipt	31/08/2017	31/08/2017	31/08/2017	31/08/2017	31/08/2017	31/08/2017					LOD/LOR	Units	Method No.
SVOC MS													
Other SVOCs													
1,2-Dichlorobenzene	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
1,2,4-Trichlorobenzene #	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
1,3-Dichlorobenzene	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
1,4-Dichlorobenzene	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
2-Nitroaniline	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
2,4-Dinitrotoluene	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
2,6-Dinitrotoluene	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
3-Nitroaniline	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
4-Bromophenylphenylether #	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
4-Chloroaniline	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
4-Chlorophenylphenylether	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
4-Nitroaniline	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
Azobenzene	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
Bis(2-chloroethoxy)methane	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
Bis(2-chloroethyl)ether	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
Carbazole	<10	<10	<10	296	166	<10					<10	ug/kg	TM16/PM8
Dibenzofuran #	<10	<10	<10	105	59	<10					<10	ug/kg	TM16/PM8
Hexachlorobenzene	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
Hexachlorobutadiene #	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
Hexachlorocyclopentadiene	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
Hexachloroethane	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
Isophorone #	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
N-nitrosodi-n-propylamine #	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
Nitrobenzene #	<10	<10	<10	<10	<10	<10					<10	ug/kg	TM16/PM8
Surrogate Recovery 2-Fluorobiphenyl	102	100	97	121	101	98					<0	%	TM16/PM8
Surrogate Recovery p-Terphenyl-d14	92	91	84	122	93	99					<0	%	TM16/PM8

Client Name: ALM Consult Limited
Reference: 30156
Location: Burlow Rd Buxton (Site B)
Contact: Alex Albon
JE Job No.: 17/14558

VOC Report : Solid

J E Sample No.	5	7	9	13	18						Please see attached notes for all abbreviations and acronyms		
Sample ID	TB107	TB109	TB111	TB116	TB121								
Depth	0.6	0.5	0.6	0.8	0.6								
COC No / misc Containers	J	J	J	J	J								
Sample Date	29/08/2017	29/08/2017	29/08/2017	29/08/2017	29/08/2017								
Sample Type	Soil	Soil	Soil	Soil	Soil								
Batch Number	1	1	1	1	1						LOD/LOR	Units	Method No.
Date of Receipt	31/08/2017	31/08/2017	31/08/2017	31/08/2017	31/08/2017								
VOC MS													
Dichlorodifluoromethane	<2	<2	<2	<2	<2						<2	ug/kg	TM15/PM10
Methyl Tertiary Butyl Ether #	<2	<2	<2	<2	<2						<2	ug/kg	TM15/PM10
Chloromethane #	<3	<3	<3	9	<3						<3	ug/kg	TM15/PM10
Vinyl Chloride	<2	<2	<2	<2	<2						<2	ug/kg	TM15_A/PM10
Bromomethane	<1	<1	<1	<1	<1						<1	ug/kg	TM15/PM10
Chloroethane #	<2	<2	<2	<2	<2						<2	ug/kg	TM15/PM10
Trichlorofluoromethane #	<2	<2	<2	<2	<2						<2	ug/kg	TM15/PM10
1,1-Dichloroethene (1,1 DCE) #	<6	<6	<6	<6	<6						<6	ug/kg	TM15/PM10
Dichloromethane (DCM) #	<30	<30	<30	<30	<30						<30	ug/kg	TM15/PM10
trans-1,2-Dichloroethene #	<3	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
1,1-Dichloroethane #	<3	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
cis-1,2-Dichloroethene #	<3	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
2,2-Dichloropropane	<4	<4	<4	<4	<4						<4	ug/kg	TM15/PM10
Bromochloromethane #	<3	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
Chloroform #	<3	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
1,1,1-Trichloroethane #	<3	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
1,1-Dichloropropene #	<3	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
Carbon tetrachloride #	<4	<4	<4	<4	<4						<4	ug/kg	TM15/PM10
1,2-Dichloroethane #	<4	<4	<4	<4	<4						<4	ug/kg	TM15/PM10
Benzene #	<3	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
Trichloroethene (TCE) #	<3	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
1,2-Dichloropropane #	<6	<6	<6	<6	<6						<6	ug/kg	TM15/PM10
Dibromomethane #	<3	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
Bromodichloromethane #	<3	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
cis-1,3-Dichloropropene	<4	<4	<4	<4	<4						<4	ug/kg	TM15/PM10
Toluene #	<3	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
trans-1,3-Dichloropropene	<3	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
1,1,2-Trichloroethane #	<3	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
Tetrachloroethene (PCE) #	<3	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
1,3-Dichloropropane #	<3	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
Dibromochloromethane #	<3	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
1,2-Dibromoethane #	<3	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
Chlorobenzene #	<3	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
1,1,1,2-Tetrachloroethane	<3	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
Ethylbenzene #	<3	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
p/m-Xylene #	<5	<5	<5	<5	<5						<5	ug/kg	TM15/PM10
o-Xylene #	<3	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
Styrene	<3	<3	<3	<3	<3						<3	ug/kg	TM15_A/PM10
Bromoform	<3	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
Isopropylbenzene #	<3	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
1,1,2,2-Tetrachloroethane #	<3	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
Bromobenzene	<2	<2	<2	<2	<2						<2	ug/kg	TM15/PM10
1,2,3-Trichloropropane #	<4	<4	<4	<4	<4						<4	ug/kg	TM15/PM10
Propylbenzene #	<4	<4	<4	<4	<4						<4	ug/kg	TM15/PM10
2-Chlorotoluene	<3	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
1,3,5-Trimethylbenzene #	<3	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
4-Chlorotoluene	<3	<3	<3	<3	<3						<3	ug/kg	TM15/PM10
tert-Butylbenzene #	<5	<5	<5	<5	<5						<5	ug/kg	TM15/PM10
1,2,4-Trimethylbenzene #	<6	<6	<6	<6	<6						<6	ug/kg	TM15/PM10
sec-Butylbenzene #	<4	<4	<4	<4	<4						<4	ug/kg	TM15/PM10
4-Isopropyltoluene #	<4	<4	<4	<4	<4						<4	ug/kg	TM15/PM10
1,3-Dichlorobenzene #	<4	<4	<4	<4	<4						<4	ug/kg	TM15/PM10
1,4-Dichlorobenzene #	<4	<4	<4	<4	<4						<4	ug/kg	TM15/PM10
n-Butylbenzene #	<4	<4	<4	<4	<4						<4	ug/kg	TM15/PM10
1,2-Dichlorobenzene #	<4	<4	<4	<4	<4						<4	ug/kg	TM15/PM10
1,2-Dibromo-3-chloropropane #	<4	<4	<4	<4	<4						<4	ug/kg	TM15/PM10
1,2,4-Trichlorobenzene #	<7	<7	<7	<7	<7						<7	ug/kg	TM15/PM10
Hexachlorobutadiene	<4	<4	<4	<4	<4						<4	ug/kg	TM15/PM10
Naphthalene	<27	<27	<27	<27	<27						<27	ug/kg	TM15/PM10
1,2,3-Trichlorobenzene #	<7	<7	<7	<7	<7						<7	ug/kg	TM15/PM10
Surrogate Recovery Toluene D8	95	96	105	96	102						<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	111	106	115	99	118						<0	%	TM15/PM10

Client Name: ALM Consult Limited
Reference: 30156
Location: Burlow Rd Buxton (Site B)
Contact: Alex Albon

Note:

Asbestos Screen analysis is carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Detailed Gravimetric Quantification and PCOM Fibre Analysis is carried out in accordance with our documented in-house methods PM042 and TM131 and HSG 248 using Stereo and Polarised Light Microscopy and Phase Contrast Optical Microscopy (PCOM). Samples are retained for not less than 6 months from the date of analysis unless specifically requested.

Opinions, including ACM type and Asbestos level, lie outside the scope of our UKAS accreditation.

Where the sample is not taken by a Jones Environmental Laboratory consultant, Jones Environmental Laboratory cannot be responsible for inaccurate or unrepresentative sampling.

Signed on behalf of Jones Environmental Laboratory:



Ryan Butterworth
 Asbestos Team Leader

J E Job No.	Batch	Sample ID	Depth	J E Sample No.	Date Of Analysis	Analysis	Result
17/14558	1	TB101	0.2	1	06/09/2017	General Description (Bulk Analysis)	Soil/Stones
					06/09/2017	Asbestos Fibres	NAD
					06/09/2017	Asbestos Fibres (2)	NAD
					06/09/2017	Asbestos ACM	NAD
					06/09/2017	Asbestos ACM (2)	NAD
					06/09/2017	Asbestos Type	NAD
					06/09/2017	Asbestos Type (2)	NAD
					06/09/2017	Asbestos Level Screen	NAD
17/14558	1	TB108	0.2	6	05/09/2017	General Description (Bulk Analysis)	Soil/Stones
					05/09/2017	Asbestos Fibres	NAD
					05/09/2017	Asbestos Fibres (2)	NAD
					05/09/2017	Asbestos ACM	NAD
					05/09/2017	Asbestos ACM (2)	NAD
					05/09/2017	Asbestos Type	NAD
					05/09/2017	Asbestos Type (2)	NAD
					05/09/2017	Asbestos Level Screen	NAD
17/14558	1	TB112	0.2	10	05/09/2017	General Description (Bulk Analysis)	Soil/Stones
					05/09/2017	Asbestos Fibres	NAD
					05/09/2017	Asbestos Fibres (2)	NAD
					05/09/2017	Asbestos ACM	NAD
					05/09/2017	Asbestos ACM (2)	NAD
					05/09/2017	Asbestos Type	NAD
					05/09/2017	Asbestos Type (2)	NAD
					05/09/2017	Asbestos Level Screen	NAD
17/14558	1	TB116	0.8	13	05/09/2017	General Description (Bulk Analysis)	soil/stones
					05/09/2017	Asbestos Fibres	NAD
					05/09/2017	Asbestos Fibres (2)	NAD
					05/09/2017	Asbestos ACM	NAD
					05/09/2017	Asbestos ACM (2)	NAD
					05/09/2017	Asbestos Type	NAD
					05/09/2017	Asbestos Type (2)	NAD
					05/09/2017	Asbestos Level Screen	NAD
17/14558	1	TB120	0.1	15	06/09/2017	General Description (Bulk Analysis)	Soil/Stones
					06/09/2017	Asbestos Fibres	NAD
					06/09/2017	Asbestos Fibres (2)	NAD

Client Name: ALM Consult Limited
Reference: 30156
Location: Burlow Rd Buxton (Site B)
Contact: Alex Albon

J E Job No.	Batch	Sample ID	Depth	J E Sample No.	Date Of Analysis	Analysis	Result
17/14558	1	TB120	0.1	15	06/09/2017	Asbestos ACM	NAD
					06/09/2017	Asbestos ACM (2)	NAD
					06/09/2017	Asbestos Type	NAD
					06/09/2017	Asbestos Type (2)	NAD
					06/09/2017	Asbestos Level Screen	NAD
17/14558	1	TB120	0.4	16	06/09/2017	General Description (Bulk Analysis)	Soil/Stones
					06/09/2017	Asbestos Fibres	NAD
					06/09/2017	Asbestos Fibres (2)	NAD
					06/09/2017	Asbestos ACM	NAD
					06/09/2017	Asbestos ACM (2)	NAD
					06/09/2017	Asbestos Type	NAD
					06/09/2017	Asbestos Type (2)	NAD
					06/09/2017	Asbestos Level Screen	NAD
17/14558	1	TB121	0.2	17	06/09/2017	General Description (Bulk Analysis)	Soil/Stones
					06/09/2017	Asbestos Fibres	NAD
					06/09/2017	Asbestos Fibres (2)	NAD
					06/09/2017	Asbestos ACM	NAD
					06/09/2017	Asbestos ACM (2)	NAD
					06/09/2017	Asbestos Type	NAD
					06/09/2017	Asbestos Type (2)	NAD
					06/09/2017	Asbestos Level Screen	NAD
17/14558	1	TB122	0.2	19	05/09/2017	General Description (Bulk Analysis)	Soil/Stones
					05/09/2017	Asbestos Fibres	NAD
					05/09/2017	Asbestos Fibres (2)	NAD
					05/09/2017	Asbestos ACM	NAD
					05/09/2017	Asbestos ACM (2)	NAD
					05/09/2017	Asbestos Type	NAD
					05/09/2017	Asbestos Type (2)	NAD
					05/09/2017	Asbestos Level Screen	NAD

Matrix : Solid

Client Name:	ALM Consult Limited	Matrix : Solid
Reference:	30156	

Reference: 30156
Location: Burlow Rd Buxton (Site B)

Location: Burlow Rd Buxton (Site B)
Contact: Alex Albon

[illegible]

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

JE Job No.: 17/14558

SOILS

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

DEVIATING SAMPLES

Samples must be received in a condition appropriate to the requested analyses. All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. If this is not the case you will be informed and any test results that may be compromised highlighted on your deviating samples report.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a UKAS requirement for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS) accredited - UK.
SA	ISO17025 (SANAS) accredited - South Africa.
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
++	Result outside calibration range, results should be considered as indicative only and are not accredited.
*	Analysis subcontracted to a Jones Environmental approved laboratory.
AD	Samples are dried at 35°C ±5°C
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

JE Job No: 17/14558

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35°C or 105°C. Calculation based on ISO 11465 and BS1377.	PM0	No preparation is required.				
TM4	Modified USEPA 8270 method for the solvent extraction and determination of 16 PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM4	Modified USEPA 8270 method for the solvent extraction and determination of 16 PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM5	Modified USEPA 8015B method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) with carbon banding within the range C8-C40 GC-FID.	PM16	Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes		AR	Yes
TM5/TM36	TM005: Modified USEPA 8015B. Determination of solvent Extractable Petroleum Hydrocarbons (EPH) including column fractionation in the carbon range of C10-35 into aliphatic and aromatic fractions by GC-FID. TM036: Modified USEPA 8015B. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C5-10 by headspace GC-FID. Including determination of BTX.	PM12/PM16	Modified US EPA method 5021. Preparation of solid and liquid samples for GC headspace analysis./Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	Yes
TM5/TM36	TM005: Modified USEPA 8015B. Determination of solvent Extractable Petroleum Hydrocarbons (EPH) including column fractionation in the carbon range of C10-35 into aliphatic and aromatic fractions by GC-FID. TM036: Modified USEPA 8015B. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C5-10 by headspace GC-FID. Including determination of BTX and calculation of Aliphatic fractions.	PM12/PM16	Modified US EPA method 5021. Preparation of solid and liquid samples for GC headspace analysis./Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes		AR	Yes
TM15	Modified USEPA 8260. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM15	Modified USEPA 8260. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM16	Modified USEPA 8270. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM16	Modified USEPA 8270. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes

JE Job No: 17/14558

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM21	Modified USEPA 415.1. Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO ₂ generated is quantified using infra-red detection.	PM24	Dried and ground solid samples are washed with hydrochloric acid, then rinsed with deionised water to remove the mineral carbon before TOC analysis.	Yes		AD	Yes
TM30	Determination of Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry). Modified US EPA Method 200.7, 6010B and BS EN ISO 11885 2009	PM14	Analysis of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for dissolved metals and acidified if required.			AR	No
TM30	Determination of Trace Metal elements by ICP-OES (Inductively Coupled Plasma - Optical Emission Spectrometry). Modified US EPA Method 200.7, 6010B and BS EN ISO 11885 2009	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 °C. Samples containing asbestos are not dried and ground.	Yes		AD	Yes
TM31	Modified USEPA 8015B. Determination of Methyltertbutylether, Benzene, Toluene, Ethylbenzene and Xylene by headspace GC-FID.	PM12	Modified US EPA method 5021. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM36	Modified US EPA method 8015B. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID.	PM12	Modified US EPA method 5021. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM36	Modified US EPA method 8015B. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID.	PM12	Modified US EPA method 5021. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM38	Soluble Ion analysis using the Thermo Aquakem Photometric Automatic Analyser. Modified US EPA methods 325.2, 375.4, 365.2, 353.1, 354.1	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AD	Yes
TM50	Acid soluble sulphate (Total Sulphate) analysed by ICP-OES	PM29	Dried and ground solid sample is boiled with dilute hydrochloric acid, the resulting liquor is then analysed.	Yes		AD	Yes
TM65	Asbestos Bulk Identification method based on HSG 248.	PM42	Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	
TM73	Modified US EPA methods 150.1 and 9045D and BS1377:1990. Determination of pH by Metrohm automated probe analyser.	PM0	No preparation is required.			AR	No

JE Job No: 17/14558

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM73	Modified US EPA methods 150.1 and 9045D and BS1377:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes		AR	No
TM74	Analysis of water soluble boron (20:1 extract) by ICP-OES.	PM32	Hot water soluble boron is extracted from dried and ground samples using a 20:1 ratio.	Yes		AD	Yes
TM15_A	Modified USEPA 8260. Quantitative Determination of Volatile Organic Compounds, Vinyl Chloride & Styrene by Headspace GC-MS.	PM10	Modified US EPA method 5021. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes

ALM Job No. 30156-B
 Site Name Burlow Road, Buxton - Southern Site B
 Engineer AA

Analytical Data			Mean Value Test			Outlier Test	
Material Type	Data (mg/kg)	Log Data	n	t	t value	T _{crit} 10 %	T _{crit} V
NATURAL TOPSOIL	84.00	1.9243	2	6.3138			
	115.00	2.0607	3	2.9200			
	93.00	1.9685	4	2.3534		1.425	
	118.00	2.0719	5	2.1318		1.602	
	129.00	2.1106	6	2.0150		1.729	
	98.00	1.9912	7	1.9432		1.828	
	588.00	2.7694	8	1.8946		1.909	
	83.00	1.9191	9	1.8595		1.977	
	140.00	2.1461	10	1.8331		2.036	
	120.00	2.0792	11	1.8125		2.088	
	93.00	1.9685	12	1.7959	1.796	2.134	2.134
	90.00	1.9542	13	1.7823		2.176	
			14	1.7709		2.213	
			15	1.7613		2.248	
			16	1.7531		2.279	
			17	1.7459		2.309	
			18	1.7396		2.336	
			19	1.7341		2.361	
			20	1.7291		2.385	
			21	1.7247		2.408	
			22	1.7207		2.429	
			23	1.7171		2.449	
			24	1.7139		2.468	
			25	1.7109		2.486	
			26	1.7081		2.503	
			27	1.7056		2.520	
			28	1.7033		2.536	
			29	1.7011		2.551	
			30	1.6991		2.565	
			31	1.6973		2.579	
			32	1.6955		2.592	
			33	1.6939		2.605	
			34	1.6924		2.618	
			35	1.6909		2.630	
			36	1.6896		2.641	
			37	1.6883		2.652	
			38	1.6871		2.663	
			39	1.6860		2.674	
			40	1.6849		2.684	
			41	1.6839		2.694	
			42	1.6829		2.704	
			43	1.6820		2.713	
			44	1.6811		2.722	
			45	1.6802		2.731	
			46	1.6794		2.739	
			47	1.6787		2.748	
			48	1.6779		2.756	
			49	1.6772		2.764	
			50	1.6766		2.772	

Determinand: Lead

No. of samples: 12
 SGV: 200.0

t value: 1.796
 mean (x): 145.92
 st.dev (s): 140.45
 95% ile: 218.73

Is the Mean Value Test Higher or Lower than the SGV?
 Higher or Lower Higher

Y max: 2.769
 Y mean: 2.080
 Y st.dev.: 0.230
 T value: 3.002
 Comparator 2.134

Maximum Value Test Result:
 Outlier Test? Maximum is an Outlier

Outlier Values	Sample Number
588	TB110 @ 0.2m



ALM Job No. 30156-B
 Site Name Burlow Road, Buxton - Southern Site B
 Engineer AA

Analytical Data			Mean Value Test			Outlier Test	
Material Type	Data (mg/kg)	Log Data	n	t	t value	T _{crit} 10 %	T _{crit} V
NATURAL TOPSOIL	84.00	1.9243	2	6.3138			
	115.00	2.0607	3	2.9200			
	93.00	1.9685	4	2.3534		1.425	
	118.00	2.0719	5	2.1318		1.602	
	129.00	2.1106	6	2.0150		1.729	
	98.00	1.9912	7	1.9432		1.828	
			8	1.8946		1.909	
	83.00	1.9191	9	1.8595		1.977	
	140.00	2.1461	10	1.8331		2.036	
	120.00	2.0792	11	1.8125	1.812	2.088	2.088
	93.00	1.9685	12	1.7959		2.134	
	90.00	1.9542	13	1.7823		2.176	
			14	1.7709		2.213	
			15	1.7613		2.248	
			16	1.7531		2.279	
			17	1.7459		2.309	
			18	1.7396		2.336	
			19	1.7341		2.361	
			20	1.7291		2.385	
			21	1.7247		2.408	
			22	1.7207		2.429	
			23	1.7171		2.449	
			24	1.7139		2.468	
			25	1.7109		2.486	
			26	1.7081		2.503	
			27	1.7056		2.520	
			28	1.7033		2.536	
			29	1.7011		2.551	
			30	1.6991		2.565	
			31	1.6973		2.579	
			32	1.6955		2.592	
			33	1.6939		2.605	
			34	1.6924		2.618	
			35	1.6909		2.630	
			36	1.6896		2.641	
			37	1.6883		2.652	
			38	1.6871		2.663	
			39	1.6860		2.674	
			40	1.6849		2.684	
			41	1.6839		2.694	
			42	1.6829		2.704	
			43	1.6820		2.713	
			44	1.6811		2.722	
			45	1.6802		2.731	
			46	1.6794		2.739	
			47	1.6787		2.748	
			48	1.6779		2.756	
			49	1.6772		2.764	
			50	1.6766		2.772	

Determinand: Lead

No. of samples: 11
 SGV: 200.0

t value: 1.812
 mean (x): 105.73
 st.dev (s): 19.43
 95% ile: 116.35

Is the Mean Value Test Higher or Lower than the SGV?
 Higher or Lower: Lower

Y max: 2.146
 Y mean: 2.018
 Y st.dev.: 0.079
 T value: 1.635
 Comparator: 2.088

Maximum Value Test Result:
 Outlier Test? Maximum is within a Normal Distribution

Outlier Values	Sample Number



ALM Job No. 30156-B
 Site Name Burlow Road, Buxton - Southern Site B
 Engineer AA

Analytical Data			Mean Value Test			Outlier Test	
Material Type	Data (mg/kg)	Log Data	n	t	t value	T _{crit} 10 %	T _{crit} V
NATURAL TOPSOIL	28.00	1.4472	2	6.3138			
	39.00	1.5911	3	2.9200			
	36.00	1.5563	4	2.3534		1.425	
	36.00	1.5563	5	2.1318		1.602	
	30.00	1.4771	6	2.0150		1.729	
	31.00	1.4914	7	1.9432		1.828	
	187.00	2.2718	8	1.8946		1.909	
	31.00	1.4914	9	1.8595		1.977	
	37.00	1.5682	10	1.8331		2.036	
	36.00	1.5563	11	1.8125		2.088	
	28.00	1.4472	12	1.7959	1.796	2.134	2.134
	25.00	1.3979	13	1.7823		2.176	
			14	1.7709		2.213	
			15	1.7613		2.248	
			16	1.7531		2.279	
			17	1.7459		2.309	
			18	1.7396		2.336	
			19	1.7341		2.361	
			20	1.7291		2.385	
			21	1.7247		2.408	
			22	1.7207		2.429	
			23	1.7171		2.449	
			24	1.7139		2.468	
			25	1.7109		2.486	
			26	1.7081		2.503	
			27	1.7056		2.520	
			28	1.7033		2.536	
			29	1.7011		2.551	
			30	1.6991		2.565	
			31	1.6973		2.579	
			32	1.6955		2.592	
			33	1.6939		2.605	
			34	1.6924		2.618	
			35	1.6909		2.630	
			36	1.6896		2.641	
			37	1.6883		2.652	
			38	1.6871		2.663	
			39	1.6860		2.674	
			40	1.6849		2.684	
			41	1.6839		2.694	
			42	1.6829		2.704	
			43	1.6820		2.713	
			44	1.6811		2.722	
			45	1.6802		2.731	
			46	1.6794		2.739	
			47	1.6787		2.748	
			48	1.6779		2.756	
			49	1.6772		2.764	
			50	1.6766		2.772	

Determinand: Copper

No. of samples: 12
 SGV: 135.0

t value: 1.796
 mean (x): 45.33
 st.dev (s): 44.82
 95% ile: 68.57

Is the Mean Value Test Higher or Lower than the SGV?
 Higher or Lower: Lower

Y max: 2.272
 Y mean: 1.571
 Y st.dev.: 0.229
 T value: 3.067
 Comparator: 2.134

Maximum Value Test Result:
 Outlier Test?: Maximum is an Outlier

Outlier Values	Sample Number
187	TB110 @ 0.2m



ALM Job No. 30156-B
 Site Name Burlow Road, Buxton - Southern Site B
 Engineer AA

Analytical Data			Mean Value Test			Outlier Test	
Material Type	Data (mg/kg)	Log Data	n	t	t value	T _{crit} 10 %	T _{crit} V
NATURAL TOPSOIL	28.00	1.4472	2	6.3138			
	39.00	1.5911	3	2.9200			
	36.00	1.5563	4	2.3534		1.425	
	36.00	1.5563	5	2.1318		1.602	
	30.00	1.4771	6	2.0150		1.729	
	31.00	1.4914	7	1.9432		1.828	
			8	1.8946		1.909	
	31.00	1.4914	9	1.8595		1.977	
	37.00	1.5682	10	1.8331		2.036	
	36.00	1.5563	11	1.8125	1.812	2.088	2.088
	28.00	1.4472	12	1.7959		2.134	
	25.00	1.3979	13	1.7823		2.176	
			14	1.7709		2.213	
			15	1.7613		2.248	
			16	1.7531		2.279	
			17	1.7459		2.309	
			18	1.7396		2.336	
			19	1.7341		2.361	
			20	1.7291		2.385	
			21	1.7247		2.408	
			22	1.7207		2.429	
			23	1.7171		2.449	
			24	1.7139		2.468	
			25	1.7109		2.486	
			26	1.7081		2.503	
			27	1.7056		2.520	
			28	1.7033		2.536	
			29	1.7011		2.551	
			30	1.6991		2.565	
			31	1.6973		2.579	
			32	1.6955		2.592	
			33	1.6939		2.605	
			34	1.6924		2.618	
			35	1.6909		2.630	
			36	1.6896		2.641	
			37	1.6883		2.652	
			38	1.6871		2.663	
			39	1.6860		2.674	
			40	1.6849		2.684	
			41	1.6839		2.694	
			42	1.6829		2.704	
			43	1.6820		2.713	
			44	1.6811		2.722	
			45	1.6802		2.731	
			46	1.6794		2.739	
			47	1.6787		2.748	
			48	1.6779		2.756	
			49	1.6772		2.764	
			50	1.6766		2.772	

Determinand: Copper

No. of samples: 11
 SGV: 135.0

t value: 1.812
 mean (x): 32.45
 st.dev (s): 4.55
 95% ile: 34.94

Is the Mean Value Test Higher or Lower than the SGV?
 Higher or Lower: Lower

Y max: 1.591
 Y mean: 1.507
 Y st.dev.: 0.062
 T value: 1.349
 Comparator: 2.088

Maximum Value Test Result:
 Outlier Test? Maximum is within a Normal Distribution

Outlier Values	Sample Number



ALM Job No. 30156-B
 Site Name Burlow Road, Buxton - Southern Site B
 Engineer AA

Analytical Data			Mean Value Test			Outlier Test	
Material Type	Data (mg/kg)	Log Data	n	t	t value	T _{crit} 10 %	T _{crit} V
NATURAL TOPSOIL	143.00	2.1553	2	6.3138			
	291.00	2.4639	3	2.9200			
	349.00	2.5428	4	2.3534		1.425	
	268.00	2.4281	5	2.1318		1.602	
	215.00	2.3324	6	2.0150		1.729	
	187.00	2.2718	7	1.9432		1.828	
	469.00	2.6712	8	1.8946		1.909	
	147.00	2.1673	9	1.8595		1.977	
	261.00	2.4166	10	1.8331		2.036	
	225.00	2.3522	11	1.8125		2.088	
	144.00	2.1584	12	1.7959	1.796	2.134	2.134
	173.00	2.2380	13	1.7823		2.176	
			14	1.7709		2.213	
			15	1.7613		2.248	
			16	1.7531		2.279	
			17	1.7459		2.309	
			18	1.7396		2.336	
			19	1.7341		2.361	
			20	1.7291		2.385	
			21	1.7247		2.408	
			22	1.7207		2.429	
			23	1.7171		2.449	
			24	1.7139		2.468	
			25	1.7109		2.486	
			26	1.7081		2.503	
			27	1.7056		2.520	
			28	1.7033		2.536	
			29	1.7011		2.551	
			30	1.6991		2.565	
			31	1.6973		2.579	
			32	1.6955		2.592	
			33	1.6939		2.605	
			34	1.6924		2.618	
			35	1.6909		2.630	
			36	1.6896		2.641	
			37	1.6883		2.652	
			38	1.6871		2.663	
			39	1.6860		2.674	
			40	1.6849		2.684	
			41	1.6839		2.694	
			42	1.6829		2.704	
			43	1.6820		2.713	
			44	1.6811		2.722	
			45	1.6802		2.731	
			46	1.6794		2.739	
			47	1.6787		2.748	
			48	1.6779		2.756	
			49	1.6772		2.764	
			50	1.6766		2.772	

Determinand: Zinc

No. of samples: 12
 SGV: 200.0

t value: 1.796
 mean (x): 239.33
 st.dev (s): 97.03
 95 % ile: 289.64

Is the Mean Value Test Higher or Lower than the SGV?
 Higher or Lower Higher

Y max: 2.671
 Y mean: 2.350
 Y st.dev.: 0.163
 T value: 1.976
 Comparator 2.134

Maximum Value Test Result:
 Outlier Test? Maximum is within a Normal Distribution

Outlier Values	Sample Number



ALM Job No. 30156-B
 Site Name Burlow Road, Buxton - Southern Site B
 Engineer AA

Analytical Data			Mean Value Test			Outlier Test	
Material Type	Data (mg/kg)	Log Data	n	t	t value	T _{crit} 10 %	T _{crit} V
COMPLETELY WEATHERED BEE LOW LIMSTONE	198.00	2.2967	2	6.3138			
	197.00	2.2945	3	2.9200			
	286.00	2.4564	4	2.3534		1.425	
	86.00	1.9345	5	2.1318		1.602	
	141.00	2.1492	6	2.0150		1.729	
	106.00	2.0253	7	1.9432	1.943	1.828	1.828
	104.00	2.0170	8	1.8946		1.909	
			9	1.8595		1.977	
			10	1.8331		2.036	
			11	1.8125		2.088	
			12	1.7959		2.134	
			13	1.7823		2.176	
			14	1.7709		2.213	
			15	1.7613		2.248	
			16	1.7531		2.279	
			17	1.7459		2.309	
			18	1.7396		2.336	
			19	1.7341		2.361	
			20	1.7291		2.385	
			21	1.7247		2.408	
			22	1.7207		2.429	
			23	1.7171		2.449	
			24	1.7139		2.468	
			25	1.7109		2.486	
			26	1.7081		2.503	
			27	1.7056		2.520	
			28	1.7033		2.536	
			29	1.7011		2.551	
			30	1.6991		2.565	
			31	1.6973		2.579	
			32	1.6955		2.592	
			33	1.6939		2.605	
			34	1.6924		2.618	
			35	1.6909		2.630	
			36	1.6896		2.641	
			37	1.6883		2.652	
			38	1.6871		2.663	
			39	1.6860		2.674	
			40	1.6849		2.684	
			41	1.6839		2.694	
			42	1.6829		2.704	
			43	1.6820		2.713	
			44	1.6811		2.722	
			45	1.6802		2.731	
			46	1.6794		2.739	
			47	1.6787		2.748	
			48	1.6779		2.756	
			49	1.6772		2.764	
			50	1.6766		2.772	

Determinand: Zinc

No. of samples: 7
 SGV: 200.0

t value: 1.943
 mean (x): 159.71
 st.dev (s): 71.39
 95% ile: 212.15

Is the Mean Value Test Higher or Lower than the SGV?
 Higher or Lower: Higher

Y max: 2.456
 Y mean: 2.168
 Y st.dev.: 0.189
 T value: 1.530
 Comparator: 1.828

Maximum Value Test Result:
 Outlier Test?: Maximum is within a Normal Distribution

Outlier Values	Sample Number

