



APPENDIX B



Geo-Integrity, - 07858 367 125 Email:- info@geo-integrity.co.uk

 INTEGRITY www.geo-integrity.co.uk info@geo-integrity.co.uk 01280 816409				Site Wensley Road, READING		Number CT 1				
Machine : Window Sample Rig Method : Drive-in Windowless Sampler		Dimensions 87mm to 2.0m 57mm to 5.0m 77mm to 3.0m 67mm to 4.0m		Ground Level (mOD) 49.82		Client Reading Borough Council		Job Number 20-03-24		
		Location (Handheld GPS) 470656.38 E 172286.396 N		Dates 17/04/2020		Project Contractor Geo-Integrity		Sheet 1/1		
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water		
0.05	D		Slight(1) at 3.50m.	49.62	(0.20)	MADE GROUND Greyish brown slightly clayey silty sandy GRAVEL. Gravel is fine to coarse angular of brick , concrete and tarmac				
0.20	D				(0.30)					
0.50	D			49.32	0.50		LAMBETH GROUP (Loose) dark brown slightly silty SAND			
1.00	D			48.82	1.00	LAMBETH GROUP (Loose) orange brown slightly silty SAND				
1.50	D					LAMBETH GROUP Light orange brown slightly silty SAND				
2.00	D									
2.50	D				(3.10)					
3.00	D									
3.50	D									
4.10	D			45.72	4.10	LAMBETH GROUP Firm to stiff mottled grey and brown silty CLAY				
4.50	D				(0.90)					
				44.82	5.00	Complete at 5.00m				
Remarks							Scale (approx)	Logged By		
							1:50	DL		
							Figure No. 20-03-24.CT 1			



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Site
Wensley Road, READING

Number
CT 2

Machine : Window Sample Rig
Method : Drive-in Windowless Sampler

Dimensions
87mm to 2.0m 57mm to 5.0m
77mm to 3.0m
67mm to 4.0m

Ground Level (mOD)
51.46

Client
Reading Borough Council

Job Number
20-03-24

Location (Handheld GPS)
470662.417 E 172290.299 N

Dates
17/04/2020

Project Contractor
Geo-Integrity

Sheet
1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.05	D			51.26	(0.20)	MADE GROUND Greyish brown slightly clayey silty sandy GRAVEL. Gravel is fine to coarse angular of brick, concrete and tarmac		
0.20	D				(0.30)			
0.50	D			50.96	0.50	LAMBETH GROUP (Loose) dark brown slightly silty SAND		
					(0.60)	LAMBETH GROUP (Loose) orange brown slightly silty SAND		
1.10	D			50.36	1.10	LAMBETH GROUP Light orange brown slightly silty SAND		
1.50	D							
2.00	D							
2.50	D							
3.00	D							
3.50	D							
4.00	D		Water strike(1) at 4.00m.					
4.30	D			47.16	4.30	LAMBETH GROUP Firm to stiff mottled grey and brown silty CLAY		
4.50	D				(0.70)			
				46.46	5.00	Complete at 5.00m		

Remarks

Scale (approx)
1:50

Logged By
DL

Figure No.
20-03-24.CT 2





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Site
Wensley Road, READING

Number
CT 3

Machine : Window Sample Rig
Method : Drive-in Windowless Sampler

Dimensions
87mm to 2.0m 57mm to 5.0m
77mm to 3.0m
67mm to 4.0m

Ground Level (mOD)
51.43

Client
Reading Borough Council

Job Number
20-03-24

Location (Handheld GPS)
470656.648 E 172294.825 N

Dates
17/04/2020

Project Contractor
Geo-Integrity

Sheet
1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	D			51.23	(0.20)	CONCRETE		
0.50	D			50.93	(0.30)	LAMBETH GROUP (Loose) dark brown slightly silty SAND		
1.00	D				0.50	LAMBETH GROUP (Loose) orange brown slightly silty SAND		
1.50	D			49.93	(1.00)			
2.00	D				1.50	LAMBETH GROUP Light orange brown slightly silty SAND		
2.50	D							
3.00	D				(2.60)			
3.50	D		Water strike(1) at 3.50m.					
4.10	D			47.33	4.10	LAMBETH GROUP Firm to stiff mottled grey and brown silty CLAY		
4.50	D				(0.90)			
				46.43	5.00	Complete at 5.00m		

Remarks

Scale (approx)
1:50

Logged By
DL

Figure No.
20-03-24.CT 3



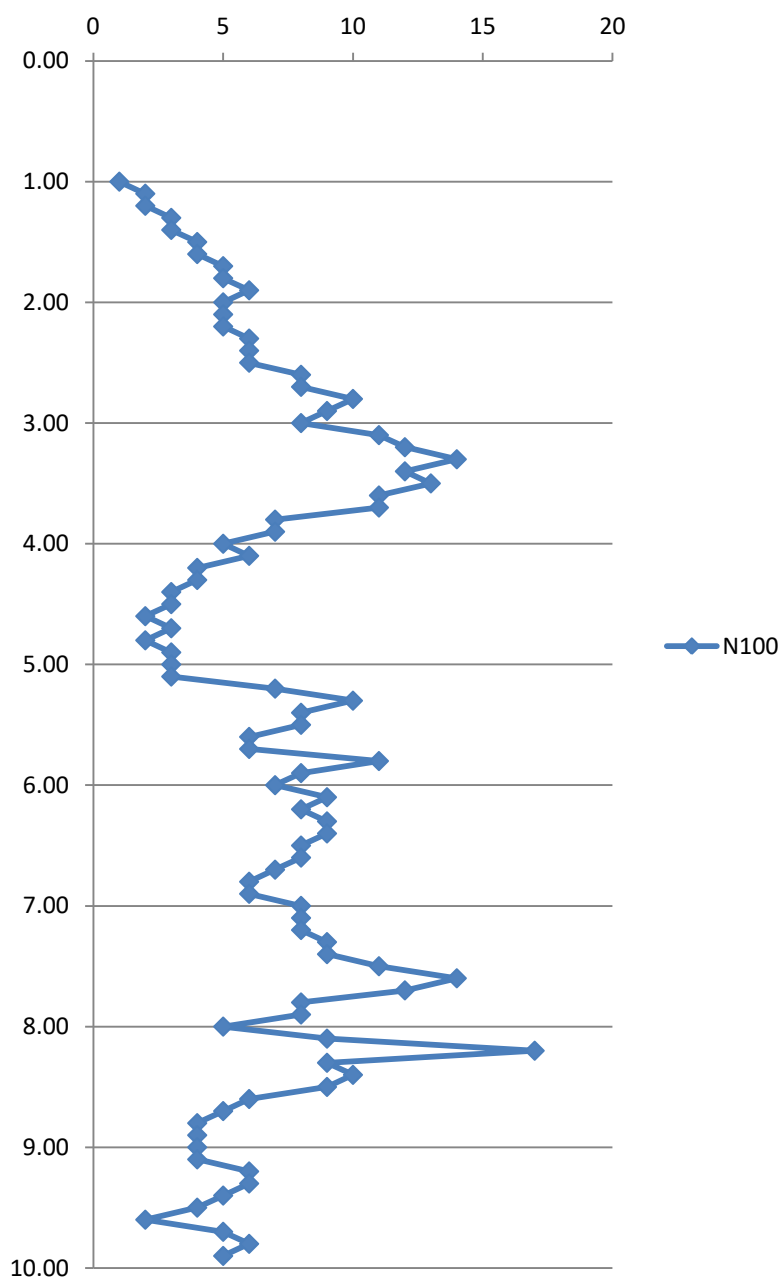


SUPER HEAVY DYNAMIC PROBE - P1

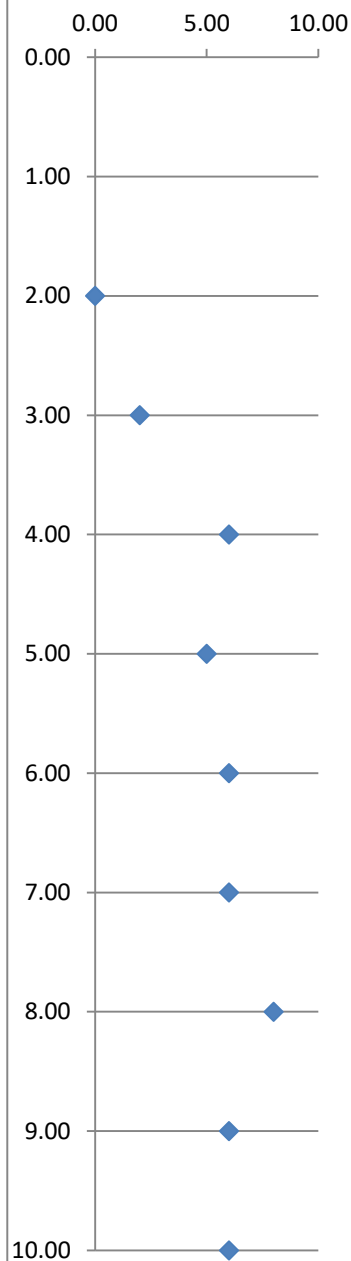
PROJECT NUMBER 20/03/2024
PROJECT NAME Wensley Rd
CLIENT Reading Borough Council
DRILLING DATE 17/04/2020

HAMMER WEIGHT 63.5KG
HAMMER DROP 0.76m

N100



Torque



INTERPRETED GROUND CONDITIONS:-

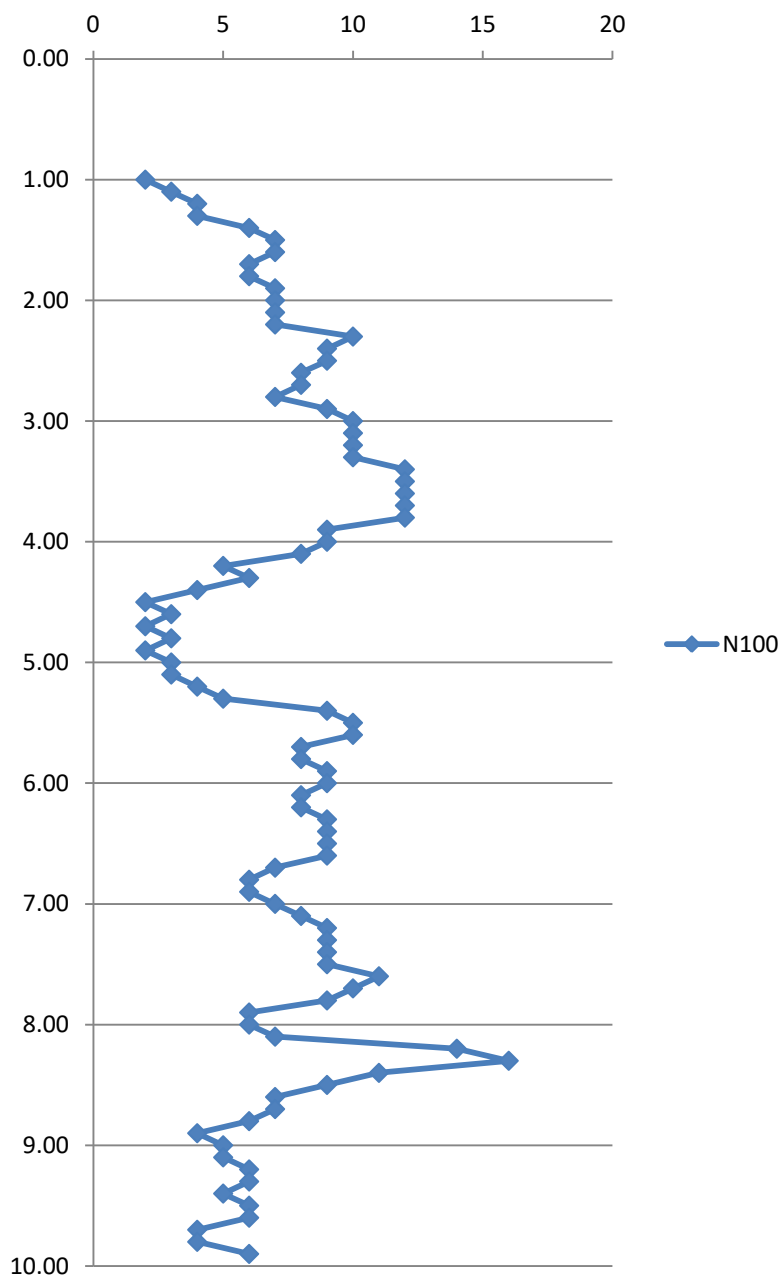


SUPER HEAVY DYNAMIC PROBE - P2

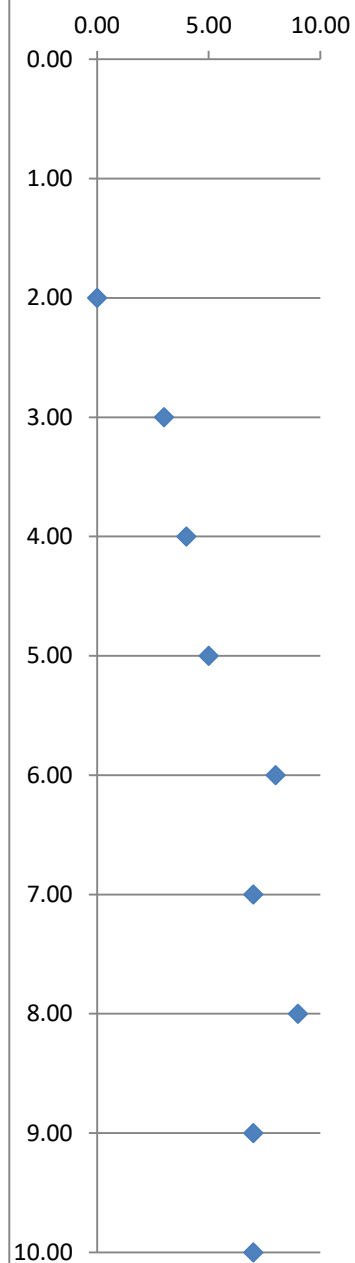
PROJECT NUMBER 20/03/2024
PROJECT NAME Wensley Rd
CLIENT Reading Borough Council
DRILLING DATE 17/04/2020

HAMMER WEIGHT 63.5KG
HAMMER DROP 0.76m

N100



Torque



INTERPRETED GROUND CONDITIONS:-

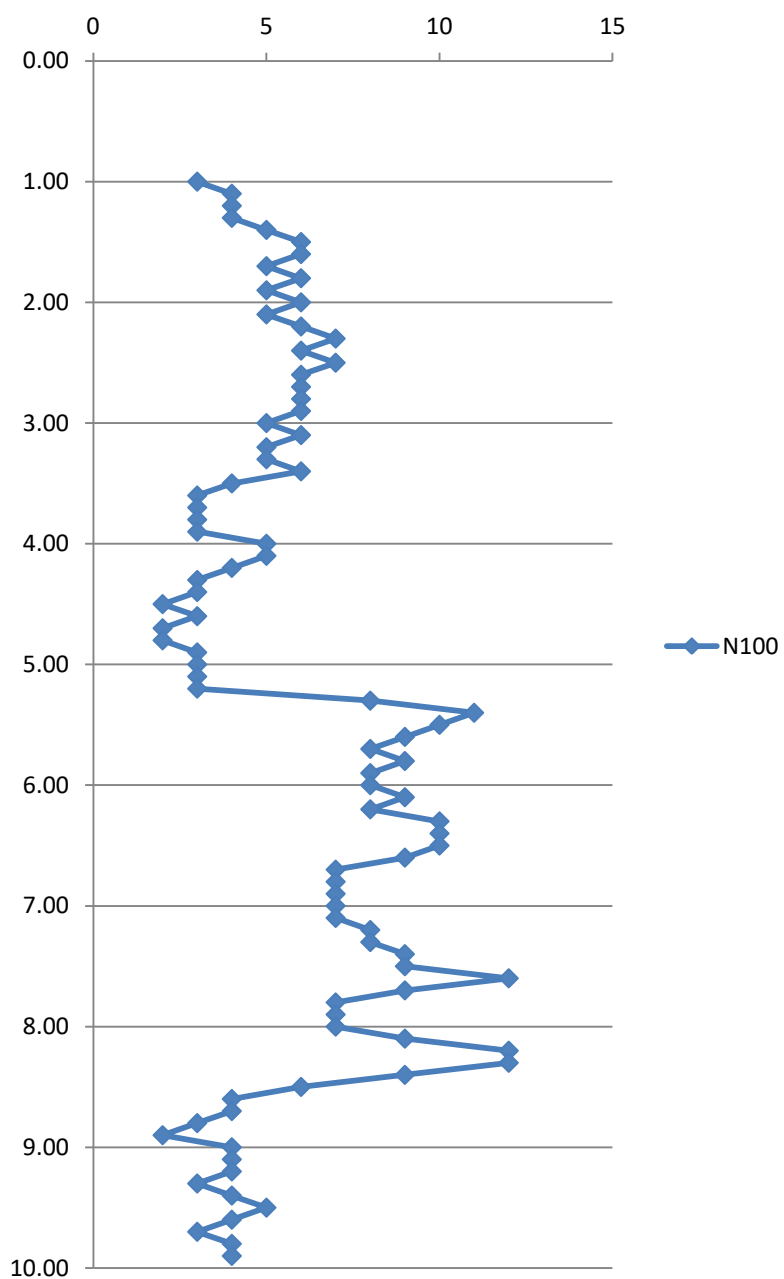


SUPER HEAVY DYNAMIC PROBE - P3

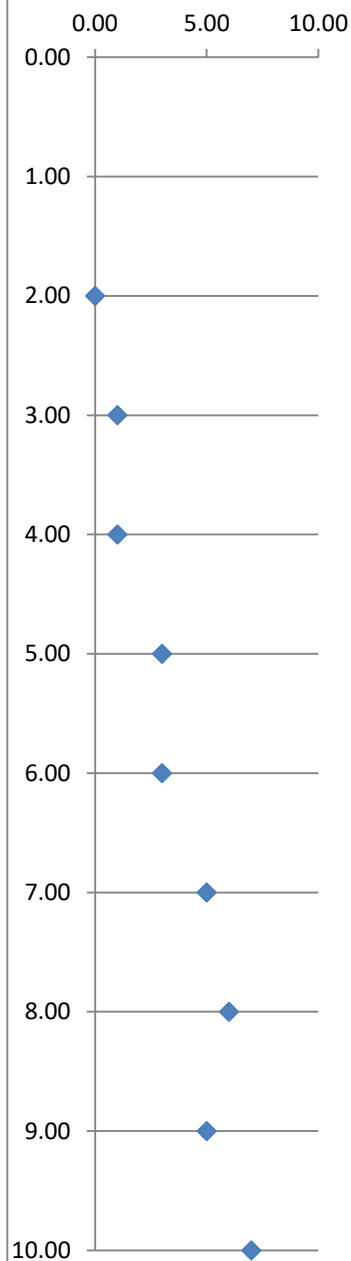
PROJECT NUMBER 20/03/2024
PROJECT NAME Wensley Rd
CLIENT Reading Borough Council
DRILLING DATE 17/04/2020

HAMMER WEIGHT 63.5KG
HAMMER DROP 0.76m

N100



Torque



INTERPRETED GROUND CONDITIONS:-



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Site

Wensley Road, READING

**Trial Pit
Number**
SA 1

Machine : Mini Digger

Method : Trial Pit

Dimensions

0.30m x 1.0m x 1.10m

Ground Level (mOD)

50.49

Client

Reading Borough Council

Job Number
20-03-24

Location (Handheld GPS)

470669.57 E 172286.549 N

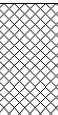
Dates

17/04/2020

Project Contractor

Geo-Integrity

Sheet
1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D					MADE GROUND Greyish brown slightly clayey silty sandy GRAVEL. Gravel is fine to coarse angular of brick , concrete and tarmac		
0.20	D			50.34	0.15	LAMBETH GROUP Loose dark brown slightly silty SAND		
					(0.25)			
				50.09	0.40	LAMBETH GROUP Loose orangish brown slightly silty SAND		
0.50-1.00	D				(0.70)			
				49.39	1.10	Complete at 1.10m		

Plan

Remarks



Scale (approx)

1:10

Logged By

Danny Lusardi

Figure No.

20-03-24-SA 1

Site
Wensley Road, READING

**Trial Pit
Number**
SA 2

Machine : Mini Digger
Method : Trial Pit

Dimensions
0.30m x 1.0m x 1.0m

Ground Level (mOD)	50.02
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Client	Reading Borough Council
---------------	-------------------------

**Job
Number**
20-03-24

Location (Handheld GPS) 470649.755 E 172282.131 N

Dates	17/04/2020
--------------	------------

Project Contractor
Geo-Integrity

Sheet
1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.15	D				(0.05)	MADE GROUND Greyish brown slightly clayey silty sandy GRAVEL. Gravel is fine to coarse angular of brick , concrete and tarmac			
					0.05				
					49.97	(0.05)	Intact Brick Floor		
0.30	D				(0.10)	MADE GROUND Dark brownish black silty GRAVEL of tarmac			
					49.82		0.20		LAMBETH GROUP (Loose) dark brown slightly silty SAND
						(0.20)			
0.50-1.00	D				49.62	0.40	LAMBETH GROUP (Loose) orangish brown slightyl silty SAND		
						(0.60)			
					49.02	1.00	Complete at 1.00m		

Plan

Remarks

Scale (approx)

1:10

Logged By

Danny Lusardi

Figure No.

20-03-24.SA 2

Trial Pit Infiltration Testing to BRE Digest 365

Client: Reading Borough Council

Report No: 20-03-24

Site: Wensley Rd

Date Tested: 17/04/20

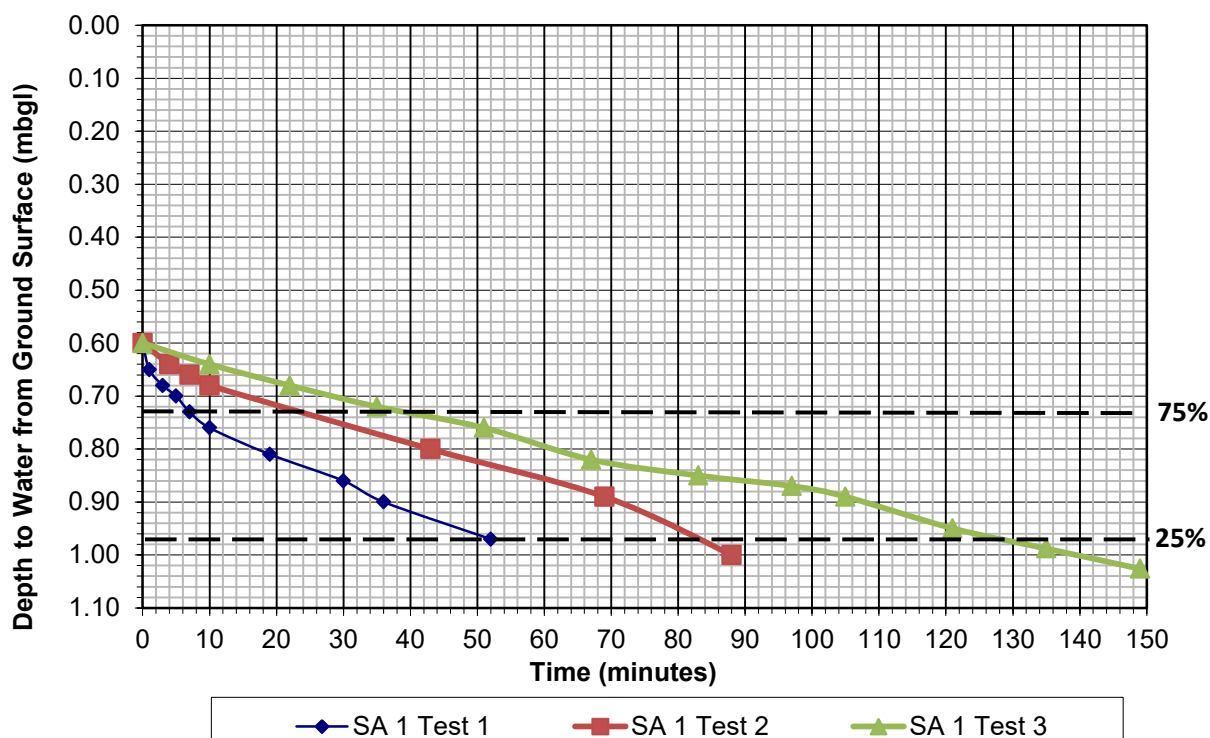
Dimensions: 0.30m x 1.0m x 1.10m
(width x length x depth)

Test Location: SA 1

Test Response Zone Description - : Lambeth Group - Sand

Time	Depth BGL	Time	Depth BGL	Time	Depth BGL
0	0.60	30	0.86	0	0.60
1	0.65	36	0.90	10	0.64
3	0.68	52	0.97	22	0.68
5	0.70			35	0.72
7	0.73			51	0.76
10	0.76			67	0.82
19	0.81			105	0.89

Average Soil Infiltration Rate = 2.20×10^{-5} m/s



Trial Pit Infiltration Testing to BRE Digest 365

Client: Reading Borough Council

Report No: 20-03-24

Site: Wensley Rd

Date Tested: 17/04/20

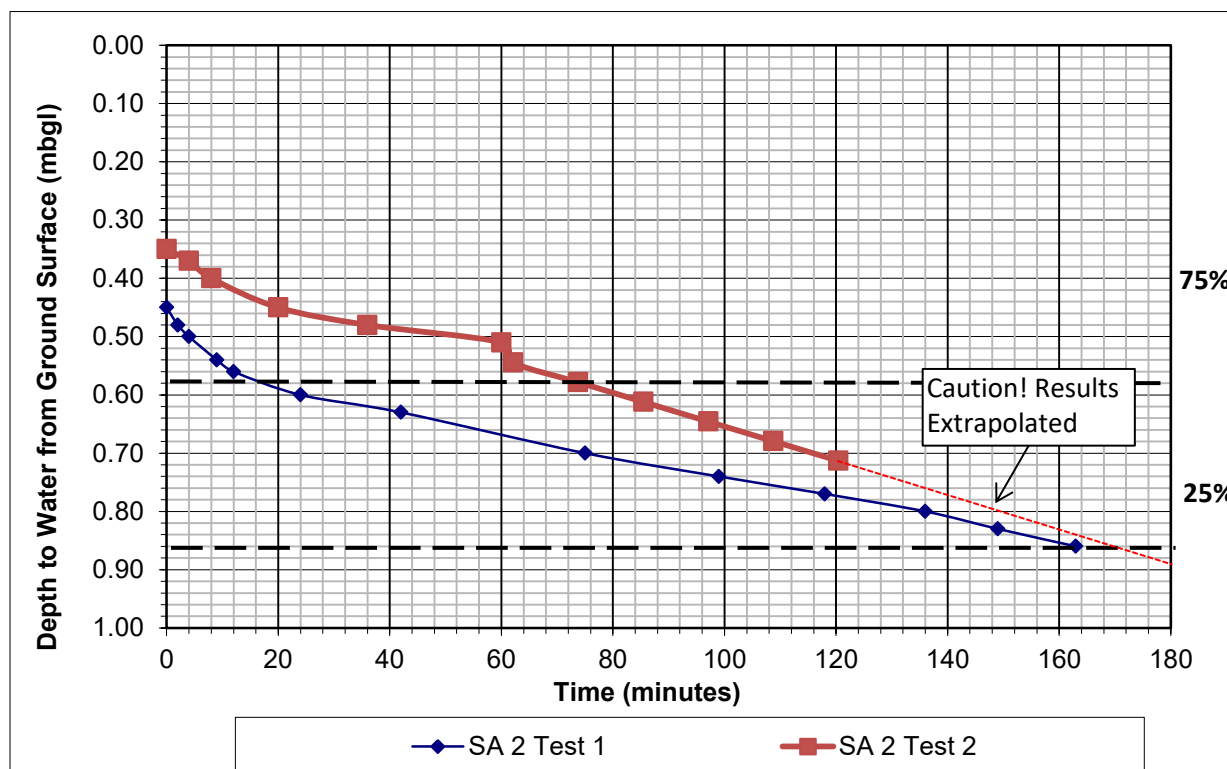
Dimensions: 0.30m x 1.0m x 1.0m
(width x length x depth)

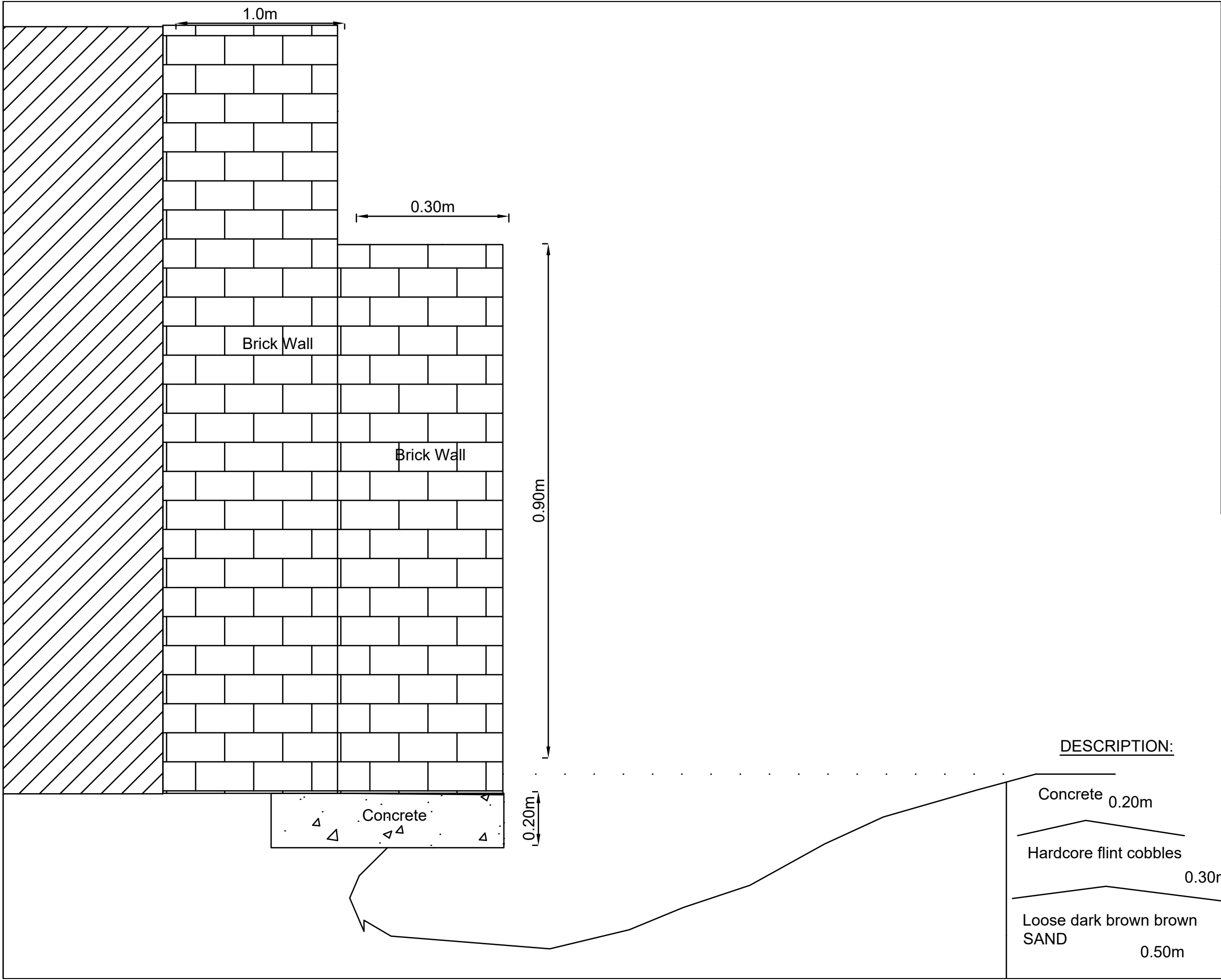
Test Location: SA 2

Test Response Zone Description - : Lambeth Group SAND

Time	Depth BGL	Time	Depth BGL	Time	Depth BGL
0	0.45	75	0.70	0	0.35
2	0.48	99	0.74	4	0.37
4	0.50	118	0.77	8	0.40
9	0.54	136	0.80	20	0.45
12	0.56	149	0.83	36	0.48
24	0.60	163	0.86	60	0.51
42	0.63			120	0.71

Test 1 Soil Infiltration Rate = 9.48×10^{-6} m/s





4 Church Street, Maids Moreton, MK18 1QE.
Mob:- 07858 367 125
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INSPECTION PIT CROSS SECTION

SITE:- 51-65 Wensley Road, READING RG1 6DQ

CLIENT:- Reading Borough Council

JOB NUMBER:- 20-03-24

DATE:- April 2020

TP 1

DESCRIPTION:

Concrete 0.20m

Hardcore flint cobbles
0.30m

Loose dark brown brown
SAND
0.50m

TRL DYNAMIC CONE PENETROMETER RECORD

Job No:- 20-03-24

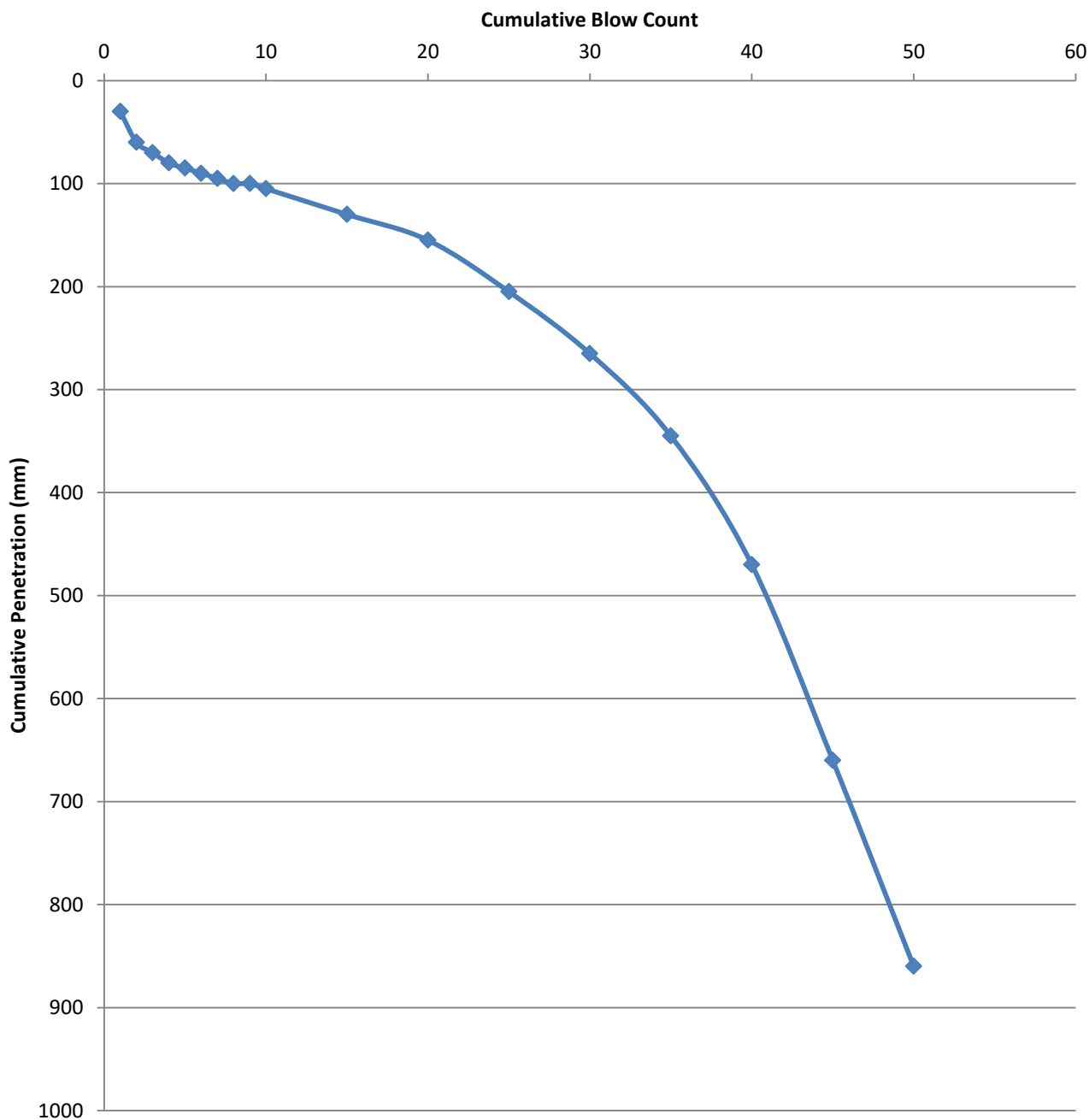
Job Name:- Wensley Rd

Equivalent CBR:- 18%

Position:- CBR 1

Depth below ground level at start of test:- GL

Cumulative Blows Vs Penetration (mm)



TRL DYNAMIC CONE PENETROMETER RECORD

Job No:- 20-03-24

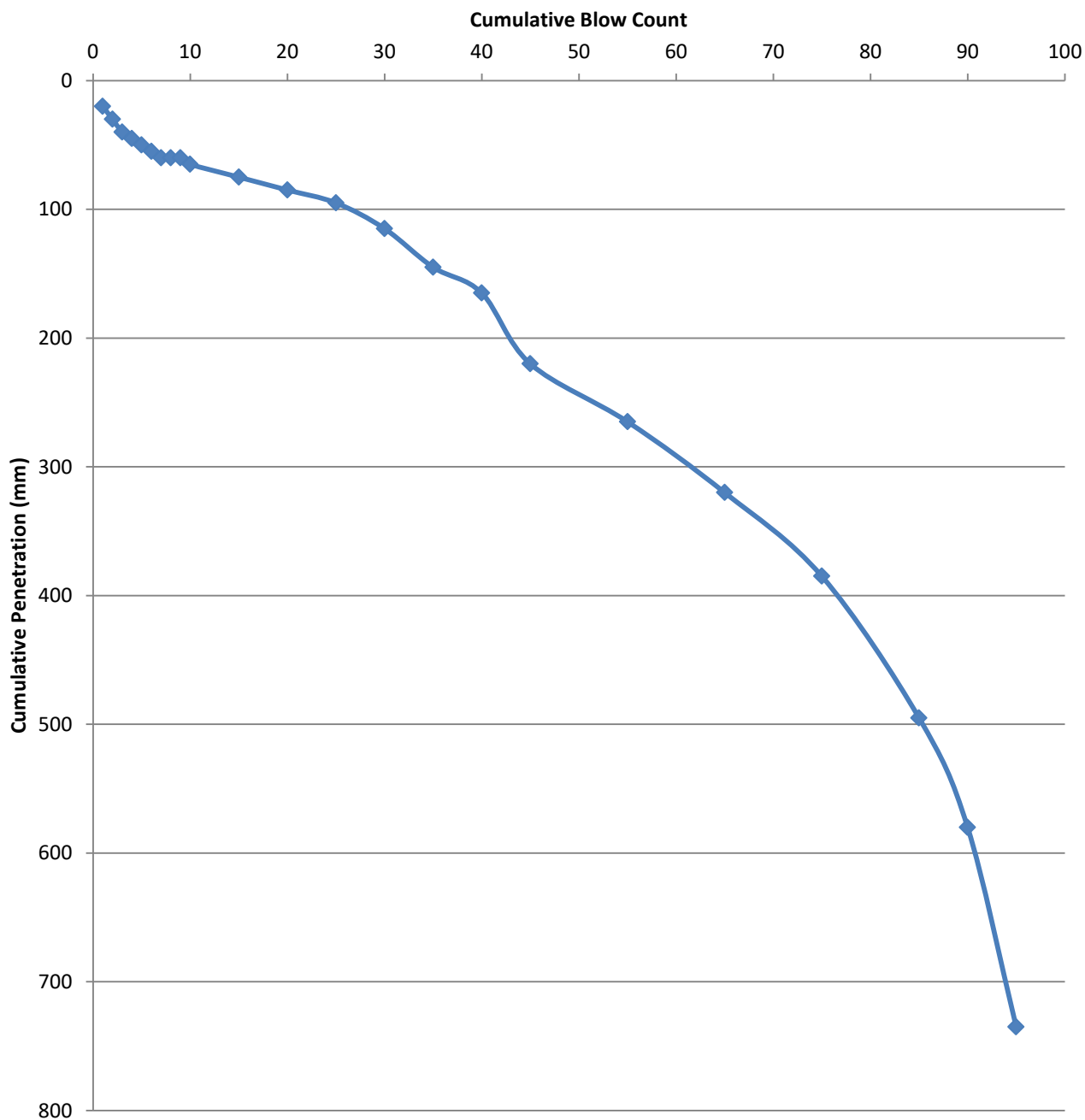
Job Name:- Wensley Rd

Equivalent CBR:- 36%

Position:- CBR 2

Depth below ground level at start of test:- GL

Cumulative Blows Vs Penetration (mm)





TRL DYNAMIC CONE PENETROMETER RECORD

Job No:- 20-03-24

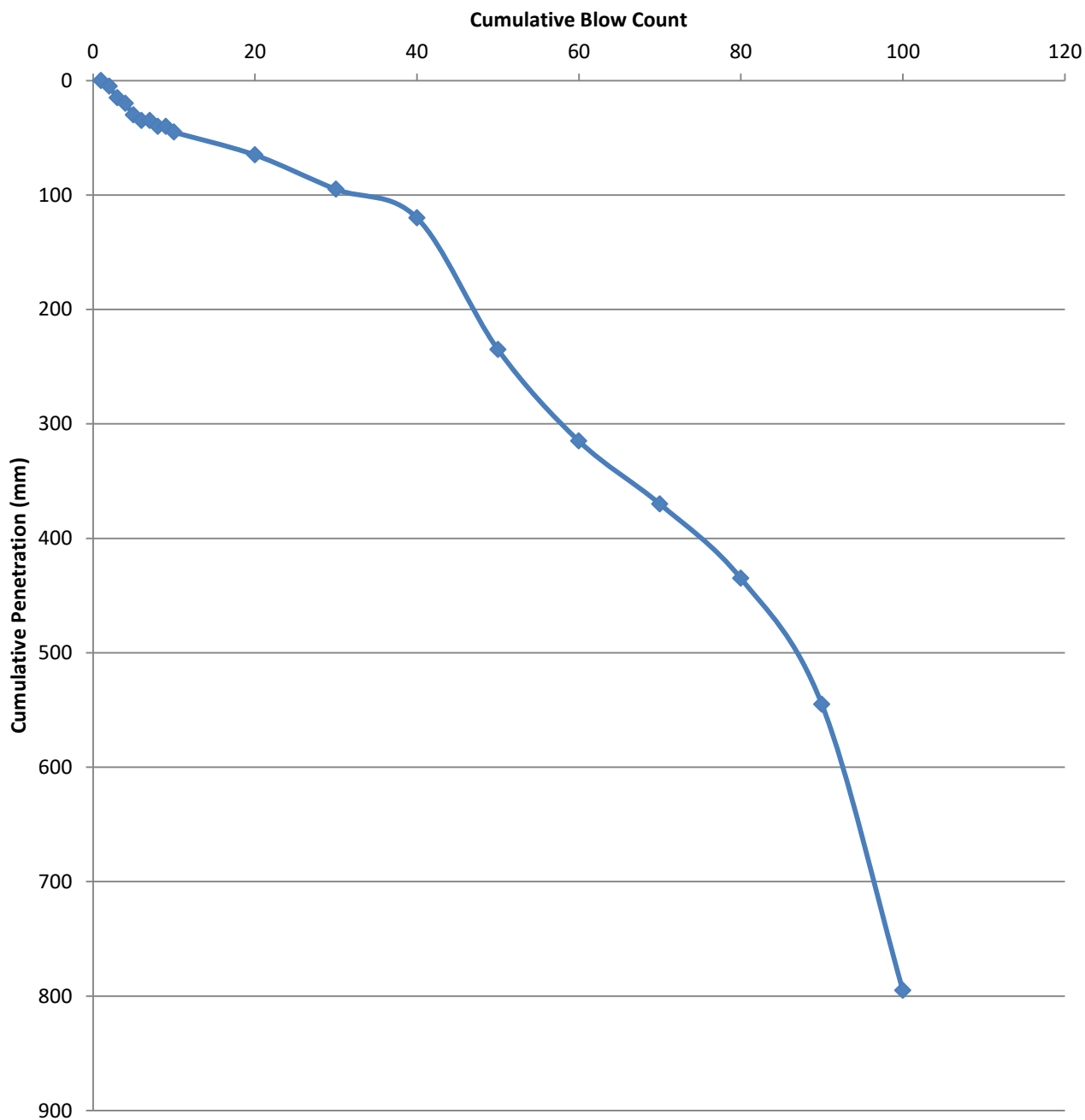
Job Name:- Wensley Rd

Equivalent CBR:- 43%

Position:- CBR 3

Depth below ground level at start of test:- GL

Cumulative Blows Vs Penetration (mm)





TRL DYNAMIC CONE PENETROMETER RECORD

Job No:- 20-03-24

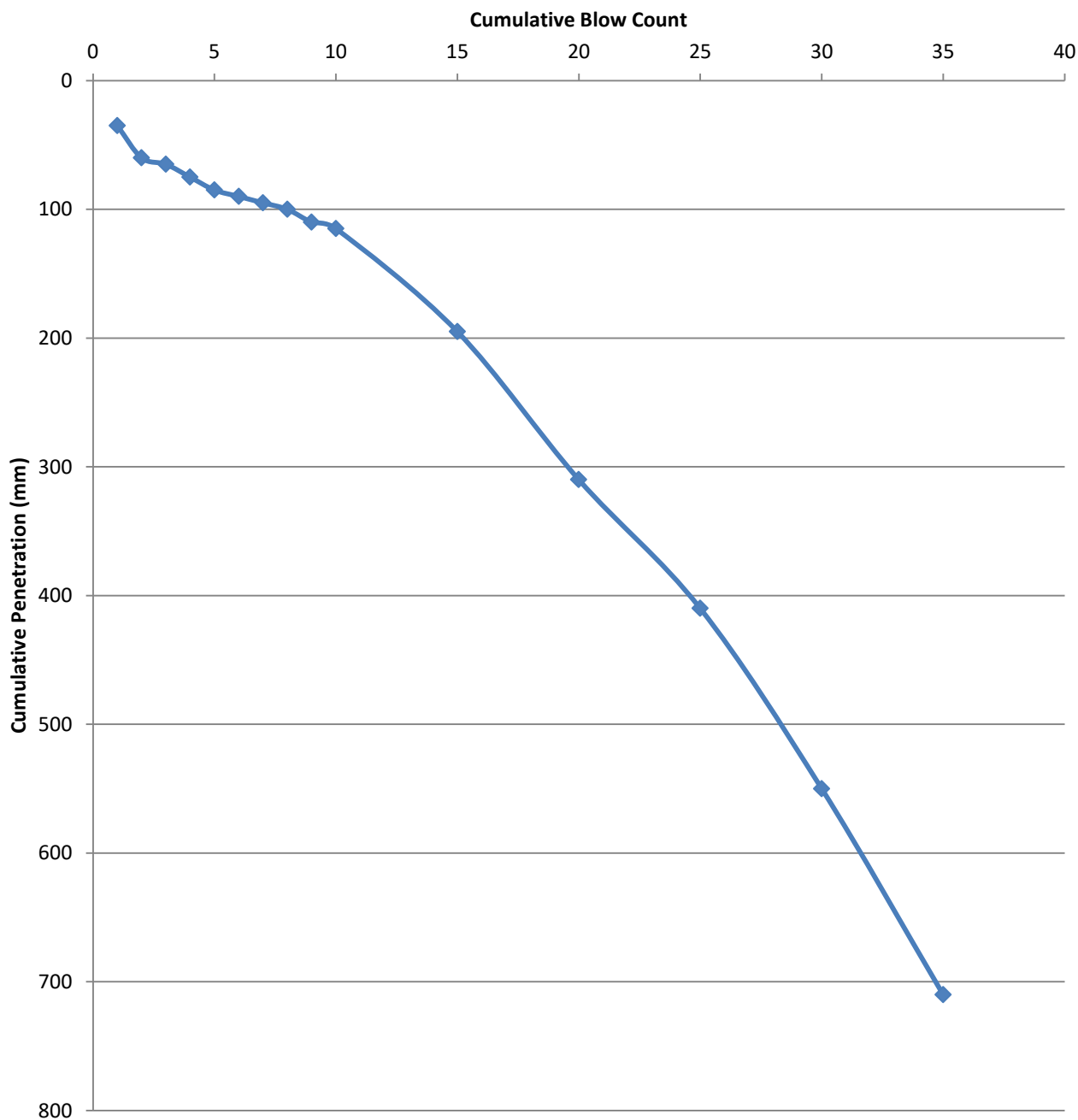
Job Name:- Wensley Rd

Equivalent CBR:- 17%

Position:- CBR 4

Depth below ground level at start of test:- GL

Cumulative Blows Vs Penetration (mm)



TRL DYNAMIC CONE PENETROMETER RECORD

Job No:- 20-03-24

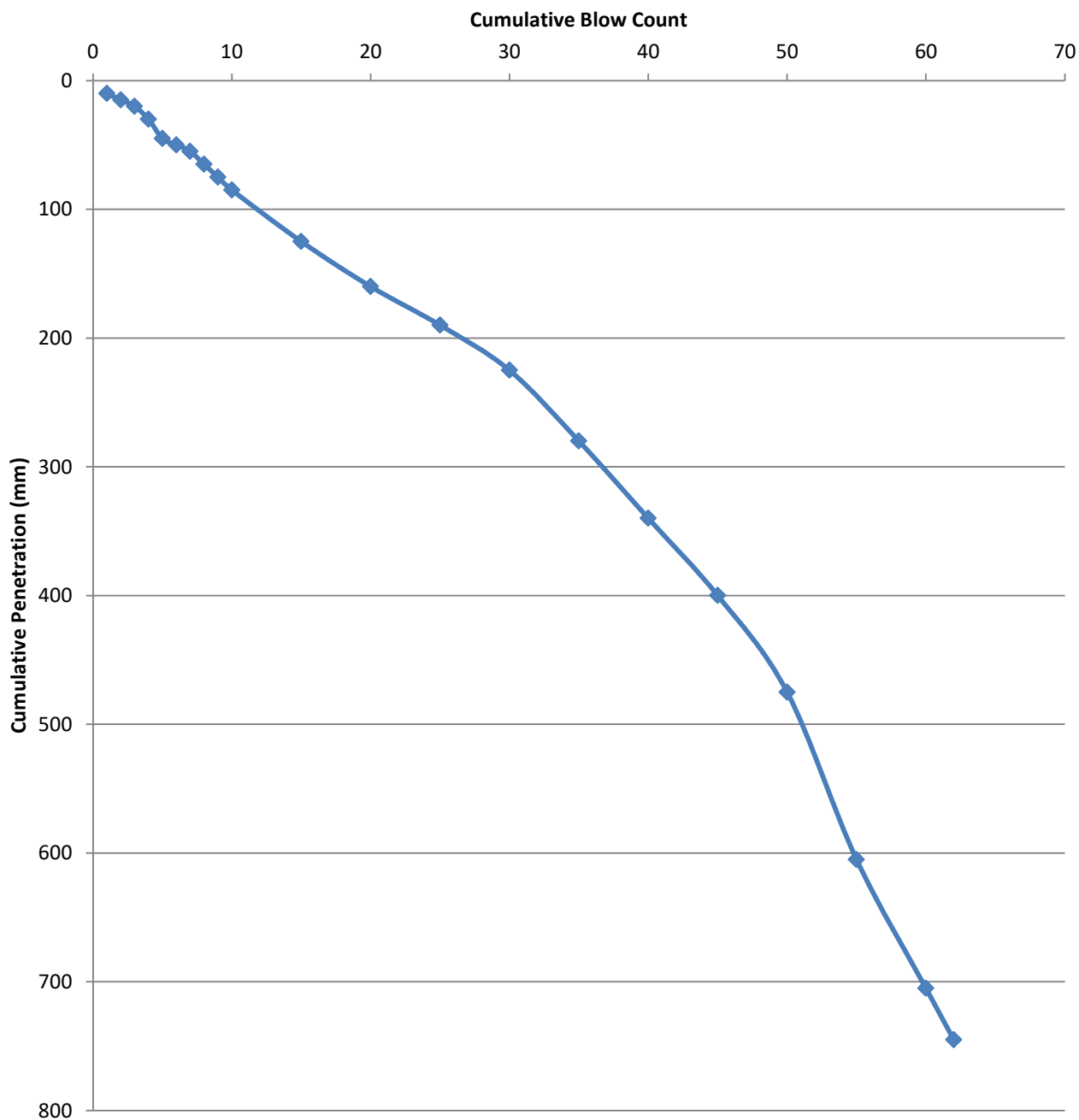
Job Name:- Wensley Rd

Equivalent CBR:- 24%

Position:- CBR 5

Depth below ground level at start of test:- GL

Cumulative Blows Vs Penetration (mm)





Date	Job No.	BH	CH4(%)	LEL(%)	CO2(%)	O2(%)	H2S (ppm)	CO (ppm)	Hex(%)	PIDCf()	PkFlw (lh)	AP (mbar)	GW (m bgl)	Pmp (s)	Bal(%)
01/05/20	20-03-24	CT 1	0	0	0.7	19.7	0	0	0.002	1	0	993	0	59	79.6
12/05/20	20-03-24	CT 1	0	0	1.6	18.9	0	0	0.007	1	-0.5	1019	0	60	79.5



APPENDIX C



Geo-Integrity, - 07858 367 125 Email:- info@geo-integrity.co.uk



Laboratory Report



GEO Site & Testing Services Ltd

Contract Number: 48569

Client Ref: **20-03-24**

Report Date: **18-05-2020**

Client PO:

Client **Geo Integrity**
4 Church Street
Maids
Moreton
MK18 1QE

Contract Title: **Wensley Road, Reading**
For the attention of: **Danny Lusardi**

Date Received: **04-05-2020**

Date Completed: **18-05-2020**

Test Description	Qty
Moisture Content BS 1377:1990 - Part 2 : 3.2 - * UKAS	2
4 Point Liquid & Plastic Limit BS 1377:1990 - Part 2 : 4.3 & 5.3 - * UKAS	2
PSD Wet Sieve method BS 1377:1990 - Part 2 : 9.2 - * UKAS	3
Disposal of samples for job	1

Notes: **Observations and Interpretations are outside the UKAS Accreditation**

* - denotes test included in laboratory scope of accreditation

- denotes test carried out by approved contractor

@ - denotes non accredited tests

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved Signatories:

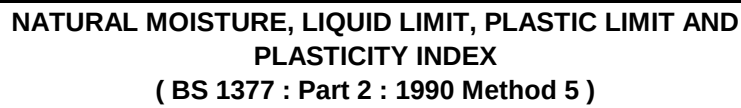
Emma Sharp (Office Manager) - Paul Evans (Quality/Technical Manager) - Richard John (Advanced Testing Manager)

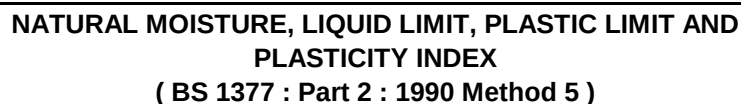
Sean Penn (Administrative/Accounts Assistant) - Shaun Jones (Laboratory manager) - Wayne Honey (Administrative/Quality Assistant)

GEO Site & Testing Services Ltd

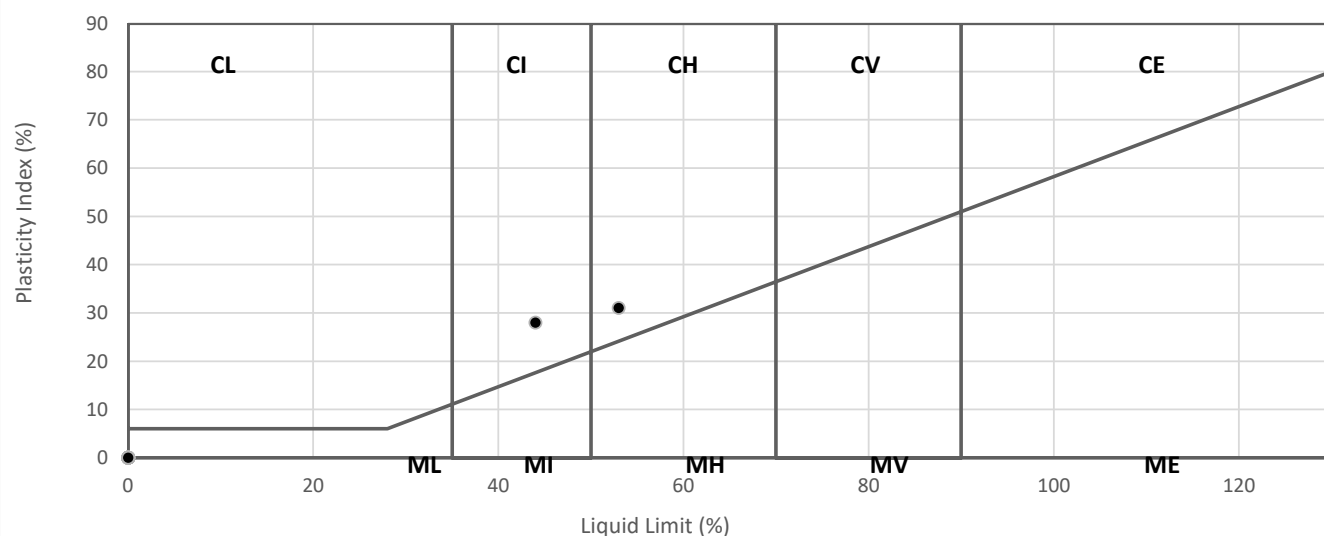
Unit 3-4, Heol Aur, Dafen Ind Estate, Dafen, Llanelli, Carmarthenshire SA14 8QN

Tel: 01554 784040 Fax: 01554 784041 info@gstl.co.uk gstl.co.uk

[illegible]

[illegible]

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION



Operators	Checked	18/05/2020	Wayne Honey (Administrative/Quality Assistant)
Luke Williams	Approved	18/05/2020	Paul Evans (Quality/Technical Manager)





PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve, Clause 9.2

Contract Number **48569**

Borehole/Pit No. **CT1**

Site Name **Wensley Road, Reading**

Sample No.

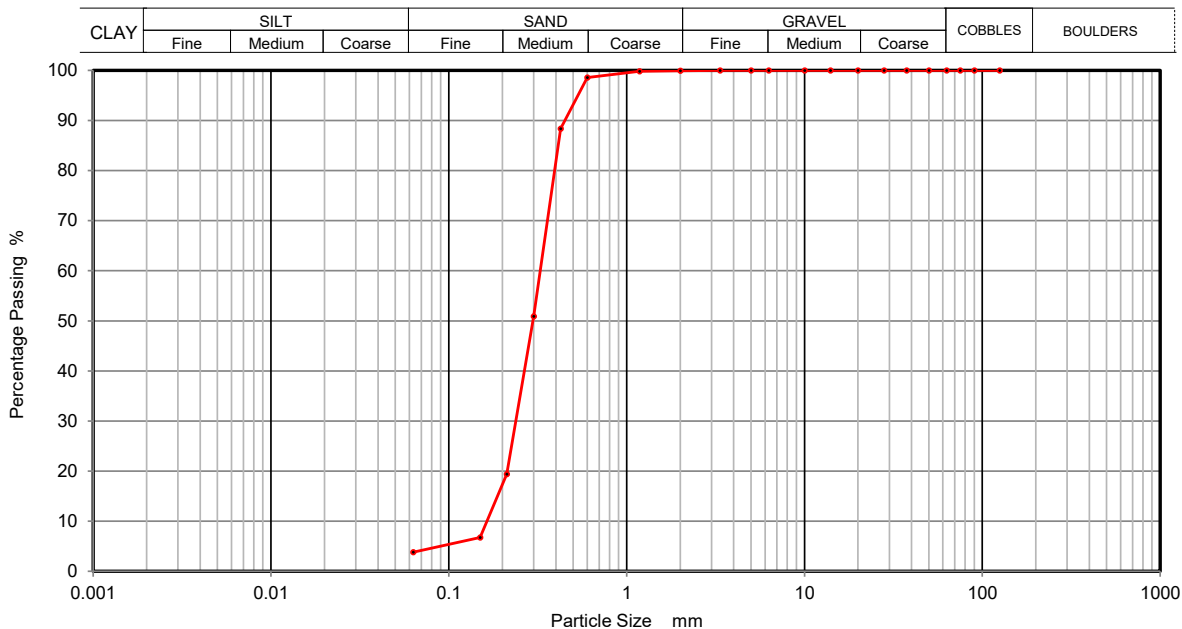
Soil Description **Brown slightly clayey/silty fine to coarse SAND**

Depth Top **1.00**

Depth Base **1.50**

Date Tested **14/05/2020**

Sample Type **B**



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	100		
0.6	99		
0.425	88		
0.3	51		
0.212	19		
0.15	7		
0.063	4		

Sample Proportions	% dry mass
Cobbles	0
Gravel	0
Sand	96
Silt and Clay	4

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Operators	Checked	17/05/2020	Wayne Honey	W. Honey
RO/MH	Approved	18/05/2020	Paul Evans	P. Evans





PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve, Clause 9.2

Contract Number **48569**

Borehole/Pit No. **CT1**

Site Name **Wensley Road, Reading**

Sample No.

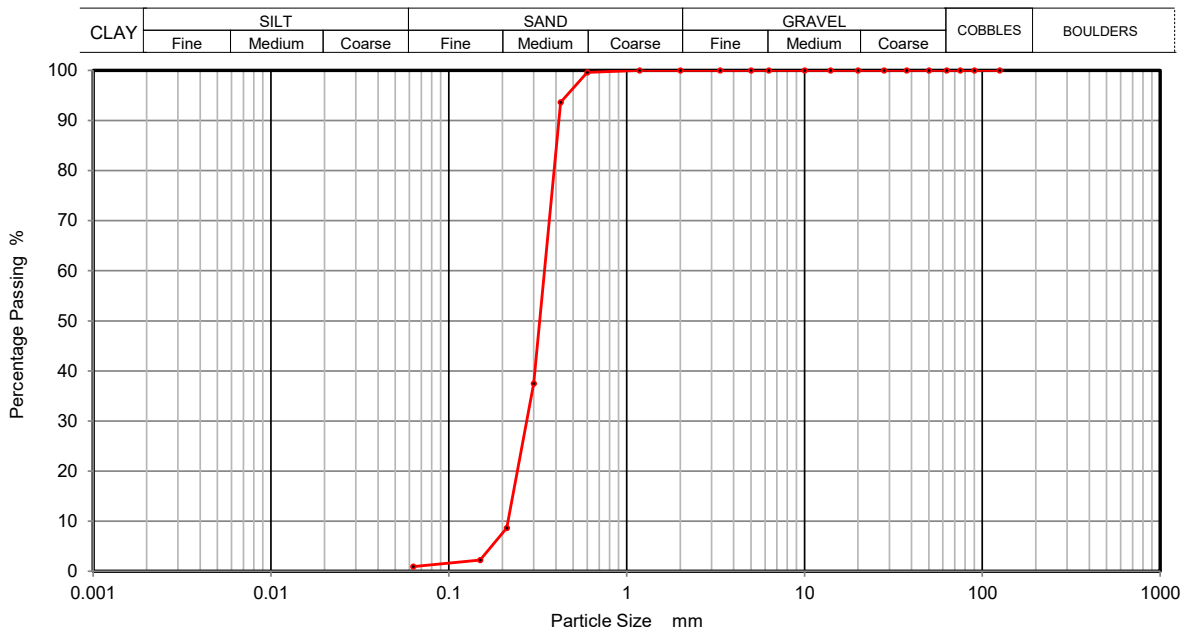
Soil Description **Brown slightly clayey/silty fine to coarse SAND**

Depth Top **3.50**

Depth Base **4.10**

Date Tested **14/05/2020**

Sample Type **B**



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	100		
0.6	100		
0.425	94		
0.3	38		
0.212	9		
0.15	2		
0.063	1		

Sample Proportions	% dry mass
Cobbles	0
Gravel	0
Sand	99
Silt and Clay	1

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Operators	Checked	17/05/2020	Wayne Honey	<i>W. Honey</i>
RO/MH	Approved	18/05/2020	Paul Evans	<i>P. Evans</i>





PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve, Clause 9.2

Contract Number **48569**

Borehole/Pit No. **CT3**

Site Name **Wensley Road, Reading**

Sample No.

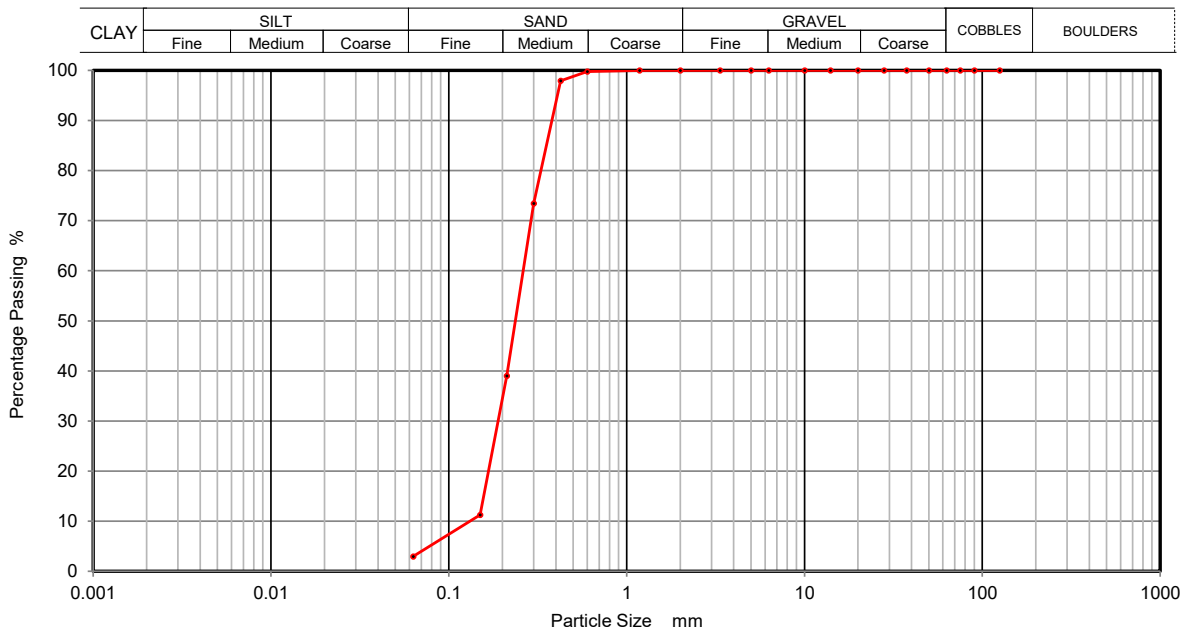
Soil Description **Brown slightly clayey/silty fine to medium SAND**

Depth Top **2.00**

Depth Base **2.50**

Date Tested **14/05/2020**

Sample Type **B**



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	100		
0.6	100		
0.425	98		
0.3	73		
0.212	39		
0.15	11		
0.063	3		

Sample Proportions	% dry mass
Cobbles	0
Gravel	0
Sand	97
Silt and Clay	3

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Operators	Checked	17/05/2020	Wayne Honey	W. Honey
RO/MH	Approved	18/05/2020	Paul Evans	P. Evans





Final Report

Report No.:	20-11196-1		
Initial Date of Issue:	04-May-2020		
Client	Geo Integrity		
Client Address:	4 Church Street Maids Moreton Bucks MK18 1QE		
Contact(s):	Danny Lusardi		
Project	20-03-04 51-65 Wensley Road, Reading		
Quotation No.:	Q16-07998	Date Received:	28-Apr-2020
Order No.:		Date Instructed:	28-Apr-2020
No. of Samples:	6		
Turnaround (Wkdays):	5	Results Due:	04-May-2020
Date Approved:	04-May-2020		
Approved By:			
Details:	Glynn Harvey, Technical Manager		

Results - Soil

Client: Geo Integrity	Chemtest Job No.:				20-11196	20-11196	20-11196	20-11196	20-11196	20-11196
Quotation No.: Q16-07998	Chemtest Sample ID.:				999711	999712	999713	999714	999715	999716
	Sample Location:				SA1	SA2	CT1	CT2	CT2	CT2
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.1	0.15	0.2	0.5	2.5	4
	Bottom Depth (m):						0.5	1.1	3	4.5
	Date Sampled:				17-Apr-2020	17-Apr-2020	17-Apr-2020	17-Apr-2020	17-Apr-2020	17-Apr-2020
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY	LIVERPOOL		
Determinand	Accred.	SOP	Units	LOD						
ACM Type	U	2192		N/A	-	-	-	-		
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected		
ACM Detection Stage	U	2192		N/A	-	-	-	-		
Moisture	N	2030	%	0.020	7.5	9.4	8.0	5.7	5.0	17
pH	M	2010		4.0			8.3	8.6	8.9	8.0
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010			< 0.010	< 0.010	< 0.010	< 0.010
Total Sulphur	M	2175	%	0.010			0.024	< 0.010	< 0.010	< 0.010
Sulphate (Acid Soluble)	M	2430	%	0.010			0.013	< 0.010	< 0.010	< 0.010
Arsenic	M	2450	mg/kg	1.0	3.0	5.5	4.4	1.0		
Cadmium	M	2450	mg/kg	0.10	< 0.10	0.19	0.19	< 0.10		
Chromium	M	2450	mg/kg	1.0	5.3	7.4	6.7	4.1		
Copper	M	2450	mg/kg	0.50	13	13	12	4.1		
Mercury	M	2450	mg/kg	0.10	< 0.10	0.59	0.14	< 0.10		
Nickel	M	2450	mg/kg	0.50	7.4	11	7.3	4.9		
Lead	M	2450	mg/kg	0.50	20	37	41	5.1		
Selenium	M	2450	mg/kg	0.20	0.21	0.31	0.20	< 0.20		
Zinc	M	2450	mg/kg	0.50	27	52	56	14		
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50		
TPH >C5-C6	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0		
TPH >C6-C7	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0		
TPH >C7-C8	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0		
TPH >C8-C10	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0		
TPH >C10-C12	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0		
TPH >C12-C16	N	2670	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0		
TPH >C16-C21	N	2670	mg/kg	1.0	< 1.0	6.4	< 1.0	< 1.0		
TPH >C21-C35	N	2670	mg/kg	1.0	< 1.0	16	< 1.0	< 1.0		
Total TPH >C5-C35	N	2670	mg/kg	10	< 10	23	< 10	< 10		
Naphthalene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Fluorene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Phenanthrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Benzo[a]anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Chrysene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		

Results - Soil

Client: Geo Integrity	Chemtest Job No.:				20-11196	20-11196	20-11196	20-11196	20-11196	20-11196
Quotation No.: Q16-07998	Chemtest Sample ID.:				999711	999712	999713	999714	999715	999716
	Sample Location:				SA1	SA2	CT1	CT2	CT2	CT2
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.1	0.15	0.2	0.5	2.5	4
	Bottom Depth (m):						0.5	1.1	3	4.5
	Date Sampled:				17-Apr-2020	17-Apr-2020	17-Apr-2020	17-Apr-2020	17-Apr-2020	17-Apr-2020
	Asbestos Lab:				COVENTRY	COVENTRY	COVENTRY	LIVERPOOL		
Determinand	Accred.	SOP	Units	LOD						
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Benzo[a]pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		
Total Of 16 PAH's	M	2700	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0		
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0		
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0		
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0		
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0		
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0		

Results - Single Stage WAC

Project: 20-03-04 51-65 Wensley Road, Reading

Chemtest Job No: 20-11196					Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 999713					Limits		
Sample Ref:					Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:							
Sample Location: CT1							
Top Depth(m): 0.2							
Bottom Depth(m): 0.5							
Sampling Date: 17-Apr-2020							
Determinand	SOP	Accred.	Units				
Total Organic Carbon	2625	M	%	1.2	3	5	6
Loss On Ignition	2610	M	%	2.0	--	--	10
Total BTEX	2760	M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg	< 0.10	1	--	--
TPH Total WAC (Mineral Oil)	2670	M	mg/kg	< 10	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg	< 2.0	100	--	--
pH	2010	M		8.3	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg	0.017	--	To evaluate	To evaluate
Eluate Analysis			10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1450	U	0.0076	0.076	0.5	2	25
Barium	1450	U	0.0054	< 0.50	20	100	300
Cadmium	1450	U	< 0.00010	< 0.010	0.04	1	5
Chromium	1450	U	< 0.0010	< 0.050	0.5	10	70
Copper	1450	U	0.0079	0.079	2	50	100
Mercury	1450	U	< 0.00050	< 0.0050	0.01	0.2	2
Molybdenum	1450	U	0.0045	< 0.050	0.5	10	30
Nickel	1450	U	0.0012	< 0.050	0.4	10	40
Lead	1450	U	0.0040	0.040	0.5	10	50
Antimony	1450	U	0.0016	0.016	0.06	0.7	5
Selenium	1450	U	< 0.0010	< 0.010	0.1	0.5	7
Zinc	1450	U	0.0075	< 0.50	4	50	200
Chloride	1220	U	< 1.0	< 10	800	15000	25000
Fluoride	1220	U	0.24	2.4	10	150	500
Sulphate	1220	U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020	N	49	490	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610	U	23	230	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	8.0

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1450	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.
2010	pH Value of Soils	pH	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.

SOP	Title	Parameters included	Method summary
2815	Polychlorinated Biphenyls (PCB) ICES7 Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	Compliance Test for Leaching of Granular Waste Material and Sludge

Report Information

Key

- U UKAS accredited
- M MCERTS and UKAS accredited
- N Unaccredited
- S This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
- SN This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
- T This analysis has been subcontracted to an unaccredited laboratory
- I/S Insufficient Sample
- U/S Unsuitable Sample
- N/E not evaluated
- < "less than"
- > "greater than"

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com

Waste Classification Report



BPW7W-76ZZT-CLWQT

Job name

Wensley

Description/Comments

Project

20-03-24

Site

Related Documents

#	Name	Description
None		

Waste Stream Template

WM3 v1.1 2018 compliant

Classified by

Name:
Danny Lusardi
Date:
22 May 2020 08:58 GMT
Telephone:
01280816409

Company:
Geo-Integrity Limited
4 Church Street
Maids Moreton
MK18 1QE

HazWasteOnline™ Training Record:

Course	Date
Hazardous Waste Classification	-
Advanced Hazardous Waste Classification	-

Report

Created by: Danny Lusardi
Created date: 22 May 2020 08:58 GMT

Job summary

#	Sample Name	Depth [m]	Classification Result	Hazard properties	Page
1	SA1	0.1	Non Hazardous		2
2	SA2	0.15	Non Hazardous		4
3	CT1	0.2	Non Hazardous		7
4	CT2	0.5	Non Hazardous		9

Appendices

	Page
Appendix A: Classifier defined and non CLP determinands	11
Appendix B: Rationale for selection of metal species	12
Appendix C: Version	13

Classification of sample: SA1

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

Sample details

Sample Name:	LoW Code:
SA1	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
7.5%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 7.5% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				3	mg/kg	1.32	3.664	mg/kg	0.000366 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium sulfate }				<0.1	mg/kg	1.855	<0.185	mg/kg	<0.0000185 %		<LOD
	048-009-00-9	233-331-6	10124-36-4									
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				5.3	mg/kg	1.462	7.165	mg/kg	0.000717 %	✓	
		215-160-9	1308-38-9									
4	copper { copper sulphate pentahydrate }				13	mg/kg	3.929	47.247	mg/kg	0.00472 %	✓	
	029-023-00-4	231-847-6	7758-99-8									
5	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
6	nickel { nickel chromate }				7.4	mg/kg	2.976	20.373	mg/kg	0.00204 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
7	lead { lead chromate }			1	20	mg/kg	1.56	28.857	mg/kg	0.00185 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.21	mg/kg	2.554	0.496	mg/kg	0.0000496 %	✓	
	034-002-00-8											
9	zinc { zinc chromate }				27	mg/kg	2.774	69.284	mg/kg	0.00693 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
10	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5	mg/kg	1.923	<0.962	mg/kg	<0.0000962 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
11	TPH (C6 to C40) petroleum group		TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
12	naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
13	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8									
14	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
15	fluorene	201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
16	phenanthrene	201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
17	anthracene	204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
18	fluoranthene	205-912-4	206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
19	pyrene	204-927-3	129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
20	benzo[a]anthracene	601-033-00-9	200-280-6		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
21	chrysene	601-048-00-0	205-923-4		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
22	benzo[b]fluoranthene	601-034-00-4	205-911-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23	benzo[k]fluoranthene	601-036-00-5	205-916-6		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
25	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
27	benzo[ghi]perylene	205-883-8	191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
28	PAHs (total)				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
29	benzene	601-020-00-8	200-753-7		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
30	toluene	601-021-00-3	203-625-9		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
31	ethylbenzene	601-023-00-4	202-849-4		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
32	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
Total:								0.0186 %		

Key

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

Classification of sample: SA2

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

Sample details

Sample Name:	SA2	LoW Code:	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	0.15 m	Entry:		17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content:	9.4%			
	(wet weight correction)			

Hazard properties

None identified

Determinands

Moisture content: 9.4% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				5.5	mg/kg	1.32	6.579	mg/kg	0.000658 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium sulfate }				0.19	mg/kg	1.855	0.319	mg/kg	0.0000319 %	✓	
	048-009-00-9	233-331-6	10124-36-4									
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				7.4	mg/kg	1.462	9.799	mg/kg	0.00098 %	✓	
		215-160-9	1308-38-9									
4	copper { copper sulphate pentahydrate }				13	mg/kg	3.929	46.276	mg/kg	0.00463 %	✓	
	029-023-00-4	231-847-6	7758-99-8									
5	mercury { mercury dichloride }				0.59	mg/kg	1.353	0.723	mg/kg	0.0000723 %	✓	
	080-010-00-X	231-299-8	7487-94-7									
6	nickel { nickel chromate }				11	mg/kg	2.976	29.661	mg/kg	0.00297 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
7	lead { lead chromate }			1	37	mg/kg	1.56	52.288	mg/kg	0.00335 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.31	mg/kg	2.554	0.717	mg/kg	0.0000717 %	✓	
	034-002-00-8											
9	zinc { zinc chromate }				52	mg/kg	2.774	130.696	mg/kg	0.0131 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
10	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5	mg/kg	1.923	<0.962	mg/kg	<0.0000962 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
11	TPH (C6 to C40) petroleum group		TPH		23	mg/kg		20.838	mg/kg	0.00208 %	✓	
12	naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
13	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8									
14	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
15	fluorene	201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
16	phenanthrene	201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
17	anthracene	204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
18	fluoranthene	205-912-4	206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
19	pyrene	204-927-3	129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
20	benzo[a]anthracene	601-033-00-9	200-280-6		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
21	chrysene	601-048-00-0	205-923-4		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
22	benzo[b]fluoranthene	601-034-00-4	205-911-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
23	benzo[k]fluoranthene	601-036-00-5	205-916-6		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
25	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
26	dibenz[a,h]anthracene	601-041-00-2	200-181-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
27	benzo[ghi]perylene	205-883-8	191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
28	PAHs (total)				<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
29	benzene	601-020-00-8	200-753-7		<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
30	toluene	601-021-00-3	203-625-9		<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
31	ethylbenzene	601-023-00-4	202-849-4		<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
32	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]		<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
Total:									0.0288 %		

Key

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

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because HP 3 Flammable : components of concern : TPH HP 3 can be discounted as this is a solid waste without a free draining liquid phase. Ref:Guidance on the classification and assessment of waste (1st Edition v1.1) Technical Guidance WM3, 2018.



Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00208%)

Classification of sample: CT1

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

Sample details

Sample Name:	LoW Code:
CT1	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.2 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
8%	
(wet weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 8% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	● pH		PH		8.3 pH		8.3 pH	8.3 pH		
2	● arsenic { arsenic trioxide }				4.4 mg/kg	1.32	5.345 mg/kg	0.000534 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	● cadmium { cadmium sulfate }				0.19 mg/kg	1.855	0.324 mg/kg	0.0000324 %	✓	
	048-009-00-9	233-331-6	10124-36-4							
4	● chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				6.7 mg/kg	1.462	9.009 mg/kg	0.000901 %	✓	
		215-160-9	1308-38-9							
5	● copper { copper sulphate pentahydrate }				12 mg/kg	3.929	43.377 mg/kg	0.00434 %	✓	
	029-023-00-4	231-847-6	7758-99-8							
6	● mercury { mercury dichloride }				0.14 mg/kg	1.353	0.174 mg/kg	0.0000174 %	✓	
	080-010-00-X	231-299-8	7487-94-7							
7	● nickel { nickel chromate }				7.3 mg/kg	2.976	19.989 mg/kg	0.002 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
8	● lead { lead chromate }			1	41 mg/kg	1.56	58.836 mg/kg	0.00377 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	● selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.2 mg/kg	2.554	0.47 mg/kg	0.000047 %	✓	
	034-002-00-8									
10	● zinc { zinc chromate }				56 mg/kg	2.774	142.924 mg/kg	0.0143 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
11	● chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
12	● TPH (C6 to C40) petroleum group		TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
13	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
14	● acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
15	acenaphthene	201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
16	fluorene	201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
17	phenanthrene	201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
18	anthracene	204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
19	fluoranthene	205-912-4	206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
20	pyrene	204-927-3	129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
21	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
22	chrysene	601-048-00-0	205-923-4	218-01-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
23	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
24	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
25	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
26	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
27	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
28	benzo[ghi]perylene	205-883-8	191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
29	PAHs (total)				<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
30	benzene	601-020-00-8	200-753-7	71-43-2	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
31	toluene	601-021-00-3	203-625-9	108-88-3	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
32	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
33	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
Total:									0.0278 %		

Key

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

Classification of sample: CT2

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

Sample details

Sample Name:	LoW Code:	
CT2	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m		
Moisture content:		
5.7%		
(wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 5.7% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	● pH		PH		8.6 pH		8.6 pH	8.6 pH		
2	● arsenic { arsenic trioxide }				1 mg/kg	1.32	1.245 mg/kg	0.000125 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	● cadmium { cadmium sulfate }				<0.1 mg/kg	1.855	<0.185 mg/kg	<0.0000185 %		<LOD
	048-009-00-9	233-331-6	10124-36-4							
4	● chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				4.1 mg/kg	1.462	5.651 mg/kg	0.000565 %	✓	
		215-160-9	1308-38-9							
5	● copper { copper sulphate pentahydrate }				4.1 mg/kg	3.929	15.191 mg/kg	0.00152 %	✓	
	029-023-00-4	231-847-6	7758-99-8							
6	● mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
7	● nickel { nickel chromate }				4.9 mg/kg	2.976	13.752 mg/kg	0.00138 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
8	● lead { lead chromate }			1	5.1 mg/kg	1.56	7.502 mg/kg	0.000481 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
9	● selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<LOD
	034-002-00-8									
10	● zinc { zinc chromate }				14 mg/kg	2.774	36.624 mg/kg	0.00366 %	✓	
	024-007-00-3	236-878-9	13530-65-9							
11	● chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
12	● TPH (C6 to C40) petroleum group		TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
13	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
14	● acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
15	acenaphthene	201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
16	fluorene	201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
17	phenanthrene	201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
18	anthracene	204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
19	fluoranthene	205-912-4	206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
20	pyrene	204-927-3	129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
21	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
22	chrysene	601-048-00-0	205-923-4	218-01-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
23	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
24	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
25	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
26	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
27	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
28	benzo[ghi]perylene	205-883-8	191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
29	PAHs (total)				<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
30	benzene	601-020-00-8	200-753-7	71-43-2	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
31	toluene	601-021-00-3	203-625-9	108-88-3	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
32	ethylbenzene	601-023-00-4	202-849-4	100-41-4	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
33	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]	<1 mg/kg		<1 mg/kg	<0.0001 %			<LOD
Total:									0.00967 %		

Key

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

Appendix A: Classifier defined and non CLP determinands

• pH (CAS Number: PH)

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

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

Conversion factor: 1.462
Description/Comments: Data from C&L Inventory Database
Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806>
Data source date: 17 Jul 2015
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Repr. 1B H360FD , Skin Sens. 1 H317 , Resp. Sens. 1 H334 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 4 H302 , Acute Tox. 4 H332

• TPH (C6 to C40) petroleum group (CAS Number: TPH)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

• **PAHs (total)**

Description/Comments: Worst case scenario combining risk phrases and substance specific thresholds from benzo[a]pyrene (CLP# 601-032-00-3) and benzo[a]anthracene (CLP# 601-033-00-9)
Data source: 2008/1272/EC – Table 3.2 of Annex VI of regulation 1272/2008/EC - Classification, labelling and packaging of substances and mixtures and 2009/790/EC Annex IV – Annex IV of regulation 2009/790/EC - 1st Adaptation to Technical Progress for European Regulation 1272/2008
Data source date: 16 Dec 2008
Hazard Statements: Repr. 1B H360FD , Aquatic Chronic 1 H410 (M=100), Aquatic Acute 1 H400 (M=100), Muta. 1B H340 , Carc. 1B H350 >= 0.01 % , Carc. 1B H350 , Skin Sens. 1 H317

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

CLP index number: 601-023-00-4
Description/Comments:
Data source: Commission Regulation (EU) No 605/2014 – 6th Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP6)
Additional Hazard Statement(s): Carc. 2 H351
Reason for additional Hazards Statement(s):
03 Jun 2015 - Carc. 2 H351 hazard statement sourced from: IARC Group 2B (77) 2000

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

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

cadmium {cadmium sulfate}

Worst Case Species Selected

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

(enter justification for selecting this species)

copper {copper sulphate pentahydrate}

Worst Case Species Selected

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight

lead {lead chromate}

Worst Case Species Selected

selenium {selenium compounds with the exception of cadmium sulposelenide and those specified elsewhere in this Annex}

(enter justification for selecting this species)

zinc {zinc chromate}

Worst Case Species Selected

chromium in chromium(VI) compounds {chromium(VI) oxide}

(enter justification for selecting this species)

Appendix C: Version

HazWasteOnline Classification Engine: **WM3 1st Edition v1.1, May 2018**

HazWasteOnline Classification Engine Version: 2020.141.4306.8485 (20 May 2020)

HazWasteOnline Database: 2020.142.4307.8486 (21 May 2020)

This classification utilises the following guidance and legislation:

WM3 v1.1 - Waste Classification - 1st Edition v1.1 - May 2018

CLP Regulation - Regulation 1272/2008/EC of 16 December 2008

1st ATP - Regulation 790/2009/EC of 10 August 2009

2nd ATP - Regulation 286/2011/EC of 10 March 2011

3rd ATP - Regulation 618/2012/EU of 10 July 2012

4th ATP - Regulation 487/2013/EU of 8 May 2013

Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013

5th ATP - Regulation 944/2013/EU of 2 October 2013

6th ATP - Regulation 605/2014/EU of 5 June 2014

WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014

Revised List of Wastes 2014 - Decision 2014/955/EU of 18 December 2014

7th ATP - Regulation 2015/1221/EU of 24 July 2015

8th ATP - Regulation (EU) 2016/918 of 19 May 2016

9th ATP - Regulation (EU) 2016/1179 of 19 July 2016

10th ATP - Regulation (EU) 2017/776 of 4 May 2017

HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017

13th ATP - Regulation (EU) 2018/1480 of 4 October 2018

14th ATP - Regulation (EU) 2020/217 of 4 October 2019

POPs Regulation 2004 - Regulation 850/2004/EC of 29 April 2004

1st ATP to POPs Regulation - Regulation 756/2010/EU of 24 August 2010

2nd ATP to POPs Regulation - Regulation 757/2010/EU of 24 August 2010