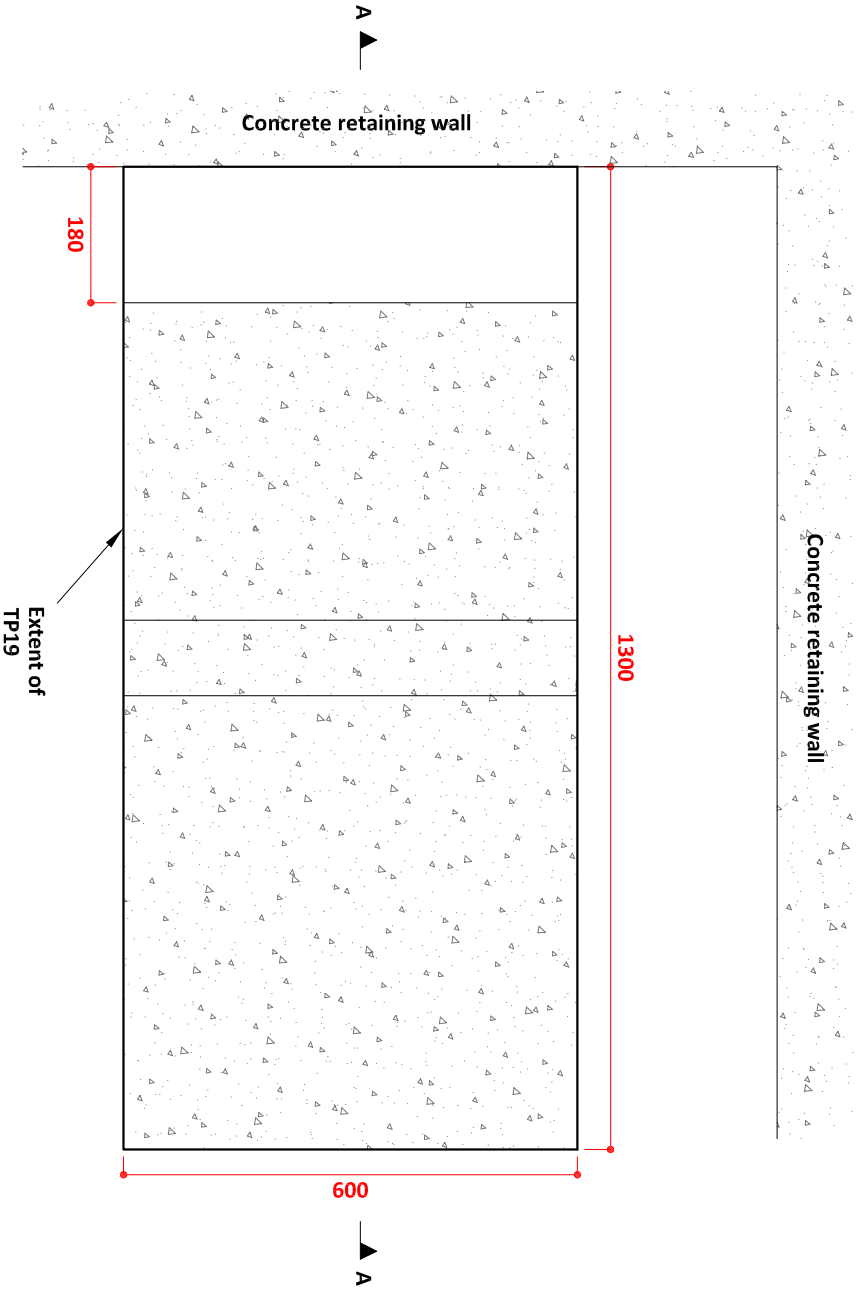


Plan

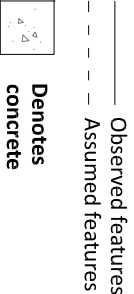


Photographic record



Key

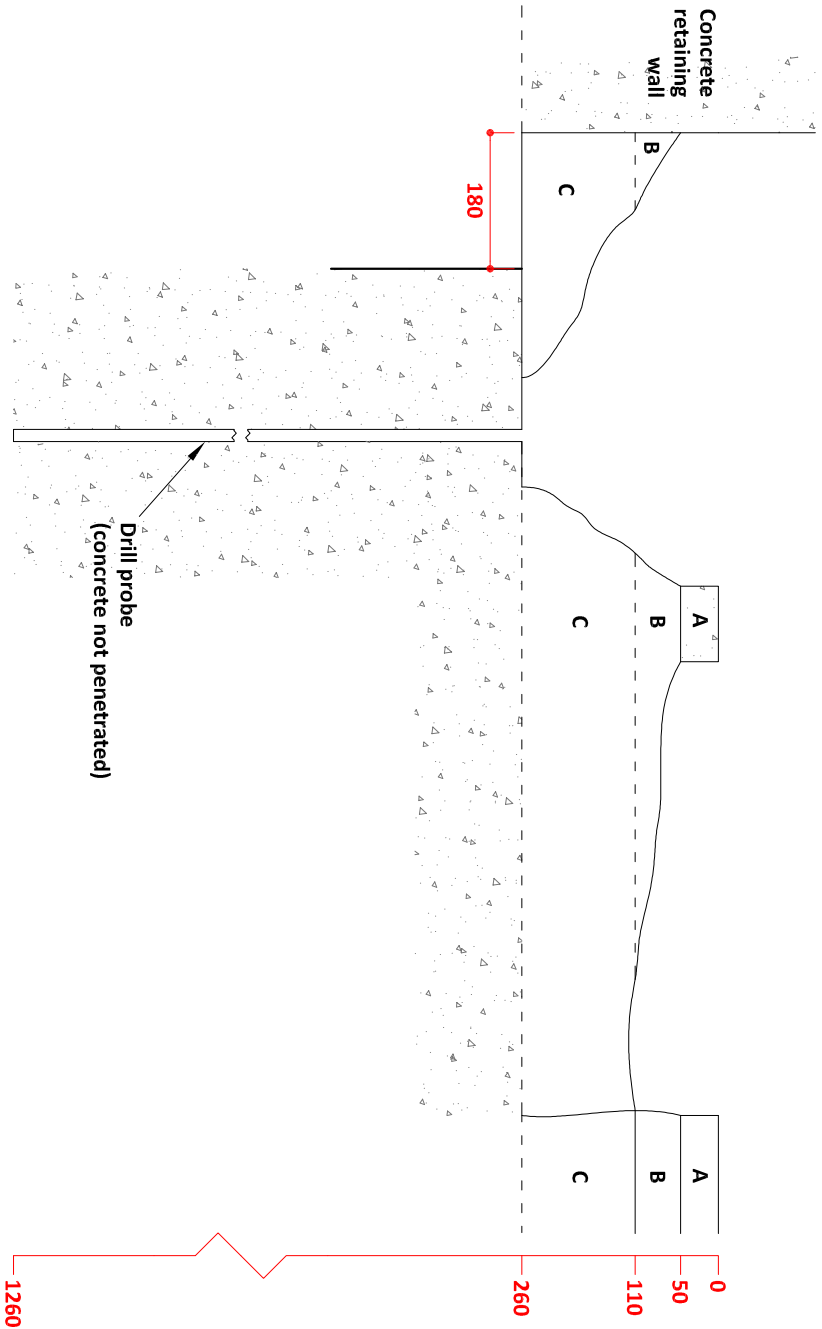
- A. CONCRETE paving slab. (MADE GROUND)
- B. Orange brown SAND. (MADE GROUND)
- C. Grey slightly clayey GRAVEL. Gravel consists of igneous rock. (MADE GROUND)



Notes

1. All dimensions shown in millimetres

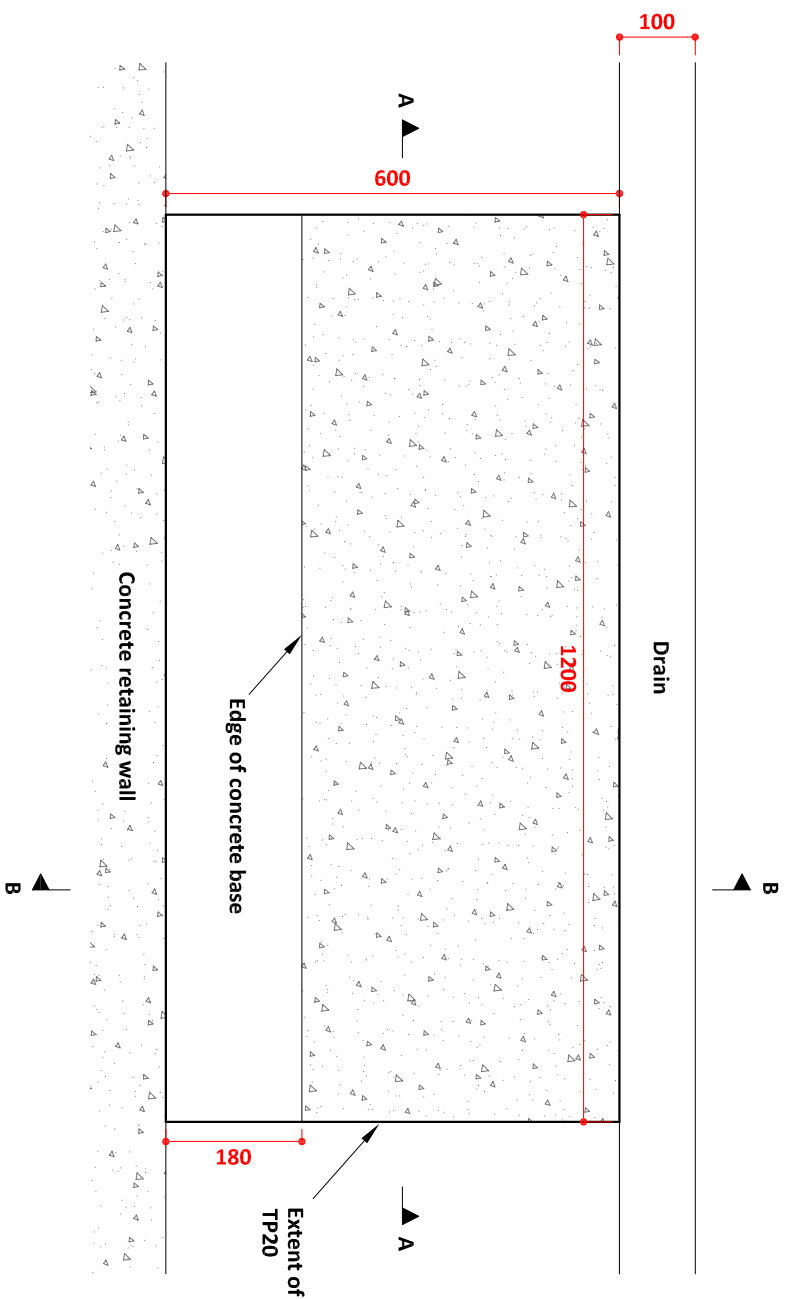
Section A-A



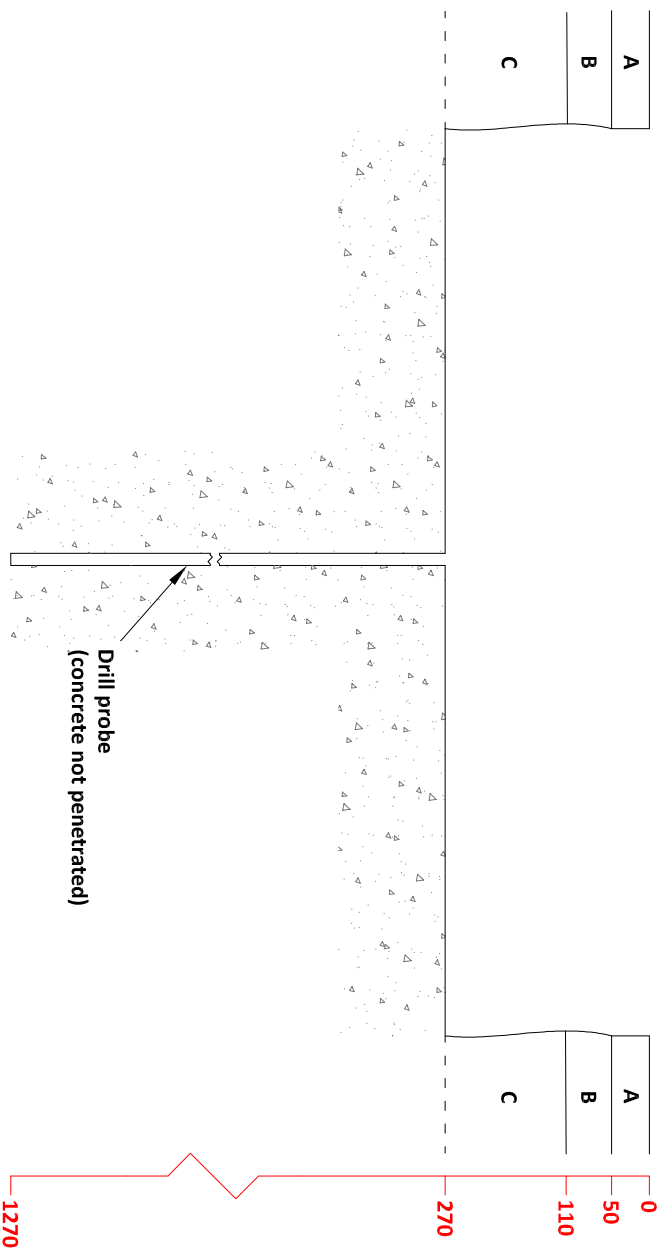
Method of excavation		Title	Location reference
Hand tools		Trial pit record	TP19
Dimensions		Date of works	Location plan on drawing number
As shown		14.07.2016	01b
Groundwater observations		Scale	Appendix
No groundwater encountered		1:10 at A3	C



Plan



Section A-A



Photographic record



Key

- A. CONCRETE paving slab.
(MADE GROUND)
- B. Orange brown SAND.
(MADE GROUND)
- C. Grey slightly clayey GRAVEL. Gravel consists of igneous rock.
(MADE GROUND)

Observed features
Assumed features

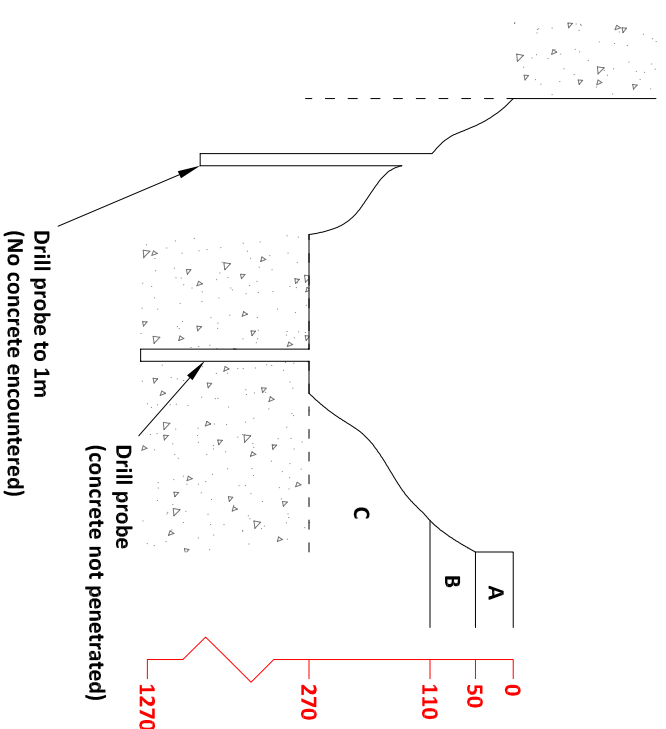


**Denotes
concrete**

Notes

1. All dimensions shown in millimetres

Section B-B



	Title
Method of excavation	Location reference
Hand tools	TP20
Dimensions	Location plan on drawing number
As shown	01b
Groundwater observations	Appendix
No groundwater encountered	C
	1:10 at A3

F2 Chemical Data



Final Report

Report No.: 16-17204-1

Initial Date of Issue: 26-Jul-2016

Client Soiltechnics Limited

Client Address: Cedar Barn
White Lodge
Walgrave
Northampton
Northamptonshire
NN6 9PY

Contact(s): Rachel Brown
Sara Bertholdson

Project STN3652G - Astor College UCL London

Quotation No.: **Date Received:** 20-Jul-2016

Order No.: 21893 **Date Instructed:** 20-Jul-2016

No. of Samples: 6

Turnaround (Wkdays): 5 **Results Due:** 26-Jul-2016

Date Approved: 26-Jul-2016

Approved By:

Details: Keith Jones, Technical Manager

Results - Soil

Client: Soiltechnics Limited	Chemtest Job No.:					16-17204	16-17204	16-17204	16-17204	16-17204	16-17204
Quotation No.:	Chemtest Sample ID.:					325817	325818	325819	325820	325821	325822
Order No.: 21893	Client Sample Ref.:					TP05	TP06	TP07	TP08	TP09	TP11
	Client Sample ID.:					1-001	1-002	1-003	1-004	1-005	1-006
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					0.50	0.50	0.40	0.90	1.00	0.50
	Date Sampled:					13-Jul-2016	13-Jul-2016	13-Jul-2016	13-Jul-2016	13-Jul-2016	13-Jul-2016
	Asbestos Lab:					COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD							
ACM Type	U	2192		N/A	Lagging	-	-	-	-	-	-
Asbestos Identification	U	2192	%	0.001	Amosite	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	7.5	18	20	12	10	21	
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Beige	Brown	Brown	
Other Material	N	2040		N/A	Sand	Stones	Stones	Stones	Stones	Stones	
Soil Texture	N	2040		N/A	Sand	Clay	Clay	Sand	Clay	Clay	
pH	M	2010		N/A	10.4	9.5	8.7	10.5	9.3	10.4	
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	< 0.40	0.42	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Cyanide (Complex)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	1.2	< 0.50	< 0.50	< 0.50
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	1.2	< 0.50	< 0.50	< 0.50
Arsenic	M	2450	mg/kg	1.0	19	22	22	11	11	18	
Beryllium	U	2450	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1
Cadmium	M	2450	mg/kg	0.10	0.39	0.41	0.12	< 0.10	< 0.10	< 0.10	0.97
Chromium	M	2450	mg/kg	1.0	11	27	16	18	14	34	
Copper	M	2450	mg/kg	0.50	16	100	130	15	19	40	
Mercury	M	2450	mg/kg	0.10	0.82	2.3	11	0.36	1.1	0.66	
Nickel	M	2450	mg/kg	0.50	10	28	21	12	13	34	
Lead	M	2450	mg/kg	0.50	79	740	630	48	120	93	
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20	0.27	< 0.20	< 0.20	< 0.20	< 0.20
Vanadium	U	2450	mg/kg	5.0	22	43	46	26	25	53	
Zinc	M	2450	mg/kg	0.50	41	270	110	24	27	170	
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter	M	2625	%	0.40	1.6	4.0	11	0.69	1.5	2.1	
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.14
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	0.52	0.19	< 0.10	< 0.10	< 0.10	2.2
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.45
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	1.5	0.38	< 0.10	< 0.10	< 0.10	4.2
Pyrene	M	2800	mg/kg	0.10	< 0.10	1.2	0.49	< 0.10	< 0.10	< 0.10	3.4
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	0.17	0.43	< 0.10	< 0.10	< 0.10	1.2
Chrysene	M	2800	mg/kg	0.10	< 0.10	0.16	2.7	< 0.10	< 0.10	< 0.10	1.0
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	0.18	6.9	< 0.10	< 0.10	< 0.10	1.2
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	1.2	< 0.10	< 0.10	< 0.10	0.26
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	0.10	7.4	< 0.10	< 0.10	< 0.10	0.93

Results - Soil

Project: STN3652G - Astor College UCL London

Client: Soiltechnics Limited	Chemtest Job No.:					16-17204	16-17204	16-17204	16-17204	16-17204	16-17204
Quotation No.:	Chemtest Sample ID.:					325817	325818	325819	325820	325821	325822
Order No.: 21893	Client Sample Ref.:					TP05	TP06	TP07	TP08	TP09	TP11
	Client Sample ID.:					1-001	1-002	1-003	1-004	1-005	1-006
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	Top Depth (m):					0.50	0.50	0.40	0.90	1.00	0.50
	Date Sampled:					13-Jul-2016	13-Jul-2016	13-Jul-2016	13-Jul-2016	13-Jul-2016	13-Jul-2016
	Asbestos Lab:					COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD							
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	7.0	< 0.10	< 0.10	< 0.10	0.45
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	0.76	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	7.0	< 0.10	< 0.10	< 0.10	0.60
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	3.8	35	< 2.0	< 2.0	< 2.0	16
Total Phenols	M	2920	mg/kg	0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30

Report Information

Key

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- 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 our Coventry 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

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.co.uk

F3 Waste Acceptance Criteria Testing



2183

Final Report

Report No.: 16-17207-1

Initial Date of Issue: 29-Jul-2016

Client Soiltechnics Limited

Client Address: Cedar Barn
White Lodge
Walgrave
Northampton
Northamptonshire
NN6 9PY

Contact(s): Rachel Brown
Sara Bertholdson

Project STN3652G - Astor College UCL
London

Quotation No.:		Date Received:	20-Jul-2016
Order No.:	21894	Date Instructed:	20-Jul-2016
No. of Samples:	1		
Turnaround (Wkdays):	7	Results Due:	28-Jul-2016
Date Approved:	29-Jul-2016		

Approved By:



Details: Glynn Harvey, Laboratory Manager

Results - 2 Stage WAC

Project: STN3652G - Astor College UCL London

Chemtest Job No: 16-17207 Chemtest Sample ID: 325826 Sample Ref: CS1 Sample ID: 1-007 Top Depth(m): Bottom Depth(m): Sampling Date: 13-Jul-2016							Landfill Waste Acceptance Criteria Limits		
							Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	Accred.	Units						
Total Organic Carbon	2625	U	%				1.7	3	6
Loss On Ignition	2610	U	%				2.5	--	10
Total BTEX	2760	U	mg/kg				< 0.010	6	--
Total PCBs (7 Congeners)	2815	U	mg/kg				< 0.10	1	--
TPH Total WAC (Mineral Oil)	2670	U	mg/kg				1800	500	--
Total (Of 17) PAH's	2700	N	mg/kg				< 2.0	100	--
pH	2010	U					10.3	--	>6
Acid Neutralisation Capacity	2015	N	mol/kg				0.025	--	To evaluate
Eluate Analysis			2:1 mg/l	8:1 mg/l	2:1 mg/kg	Cumulative mg/kg 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
Arsenic	1450	U	0.0098	0.013	< 0.050	0.13	0.5	2	25
Barium	1450	U	0.023	0.011	< 0.50	< 0.50	20	100	300
Cadmium	1450	U	< 0.00010	< 0.00010	< 0.010	< 0.010	0.04	1	5
Chromium	1450	U	0.038	0.0078	0.075	0.12	0.5	10	70
Copper	1450	U	0.012	0.0023	< 0.050	< 0.050	2	50	100
Mercury	1450	U	< 0.00050	< 0.00050	< 0.0010	< 0.0050	0.01	0.2	2
Molybdenum	1450	U	0.010	0.0026	< 0.050	< 0.050	0.5	10	30
Nickel	1450	U	0.0016	0.0013	< 0.050	< 0.050	0.4	10	40
Lead	1450	U	< 0.0010	0.0012	< 0.010	0.010	0.5	10	50
Antimony	1450	U	0.0044	0.0030	< 0.010	0.032	0.06	0.7	5
Selenium	1450	U	0.0011	< 0.0010	< 0.010	< 0.010	0.1	0.5	7
Zinc	1450	U	< 0.0010	< 0.0010	< 0.50	< 0.50	4	50	200
Chloride	1220	U	6.2	1.8	12	24	800	15000	25000
Fluoride	1220	U	0.28	0.21	< 1.0	2.2	10	150	500
Sulphate	1220	U	83	19	170	280	1000	20000	50000
Total Dissolved Solids	1020	N	160	90	320	1000	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	14	13	< 50	130	500	800	1000

Soild Information

Dry mass of test portion/kg	0.175
Moisture (%)	12

Leachate Test Information

Leachant volume 1st extract/l	0.326
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.244

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