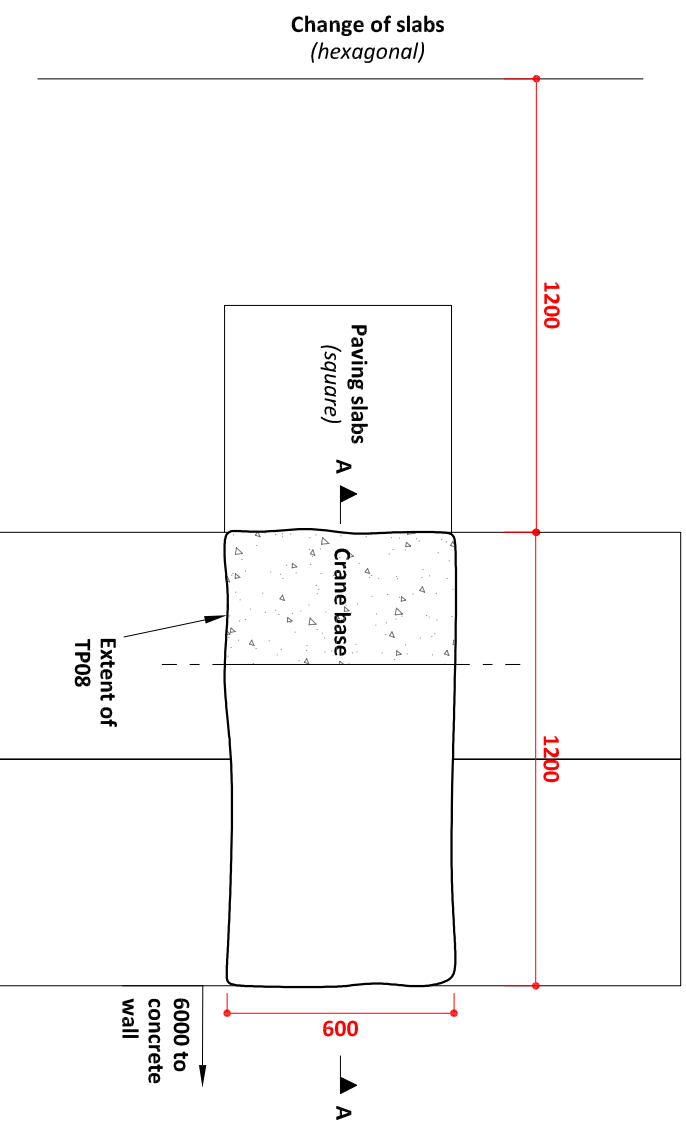




Plan



Photographic record



Key

- A. CONCRETE paving slab. (MADE GROUND)
- B. Orange brown SAND. (MADE GROUND)
- C. Loose brown slightly clayey sandy silty GRAVEL. Gravel consists of concrete, brick, plastic and glass. (MADE GROUND)
- D. Loose to medium dense dark brown silty SAND and GRAVEL. Gravel consists of brick fragments, concrete and ash. (MADE GROUND)

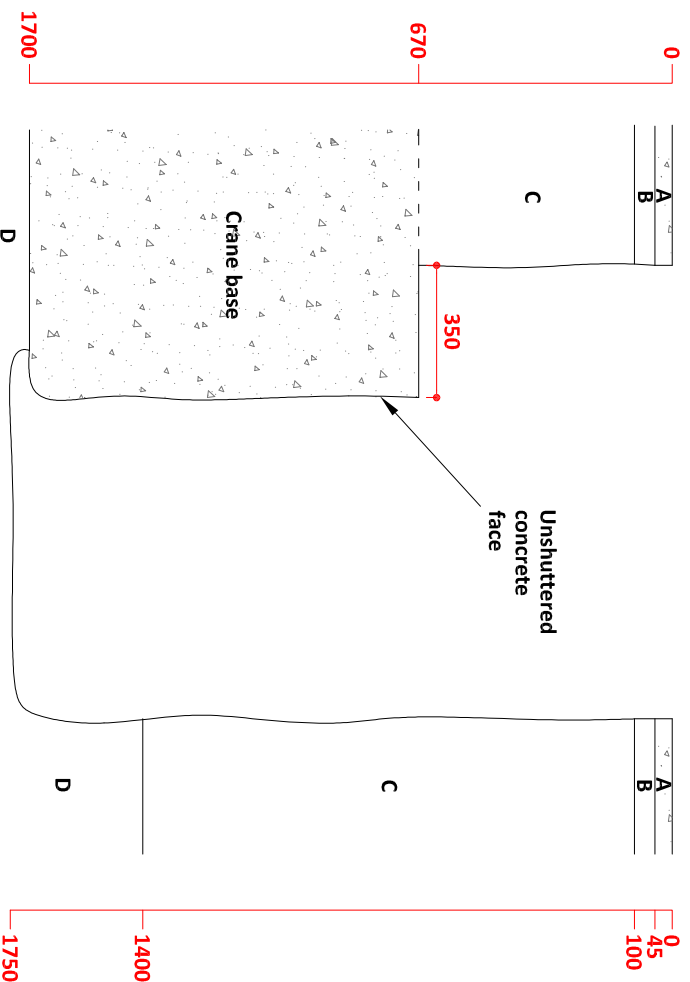
— Observed features
- - - Assumed features

Denotes concrete

Notes

1. All dimensions shown in millimetres
2. Disturbed and environmental samples taken from 0.4m, 0.9m and 1.5m depths

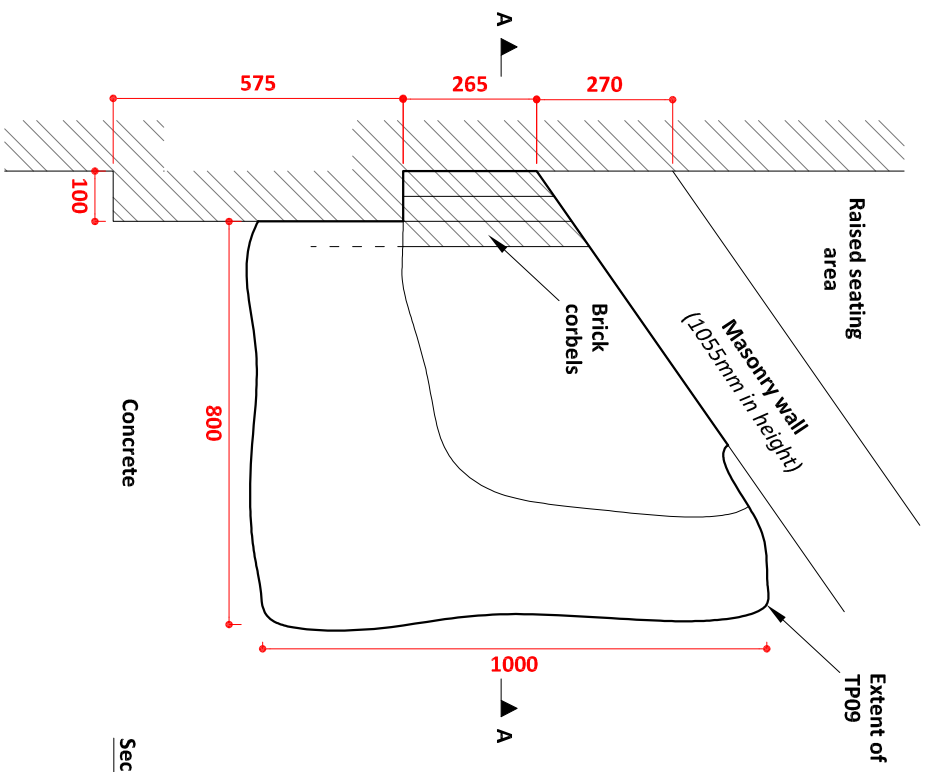
Section A-A



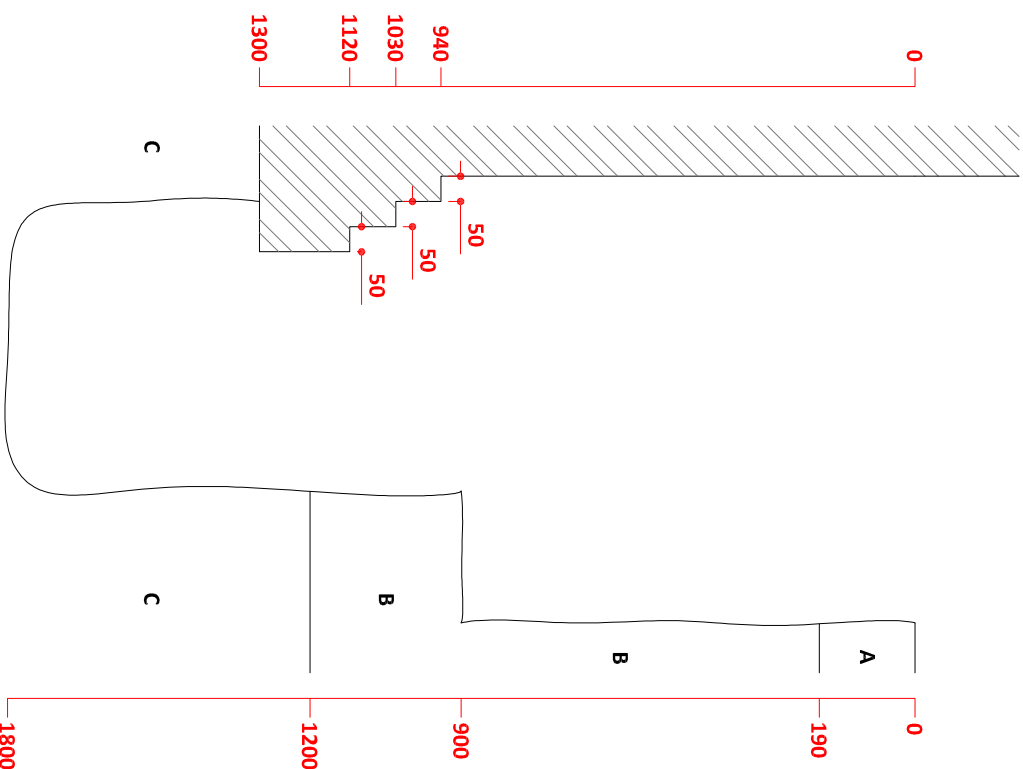
Method of excavation	Hand tools	Dimensions	As shown	Groundwater observations	No groundwater encountered
Title	Trial pit record	Date of works	13.07.2016	Scale	1:20 at A3
Location reference	TP08	Location plan on drawing number	01	Appendix	C



Plan



Section A-A



Photographic record



Key

- A. Grey unreinforced CONCRETE with aggregated comprising of flint up to 15mm in size. (MADE GROUND)
- B. Loose orange brown to brown slightly clayey silty SAND. Gravel consists of brick and concrete. (MADE GROUND)
- C. Loose brown slightly clayey slightly gravelly silty SAND. Gravel consists of flint and brick fragments. (MADE GROUND)

- Observed features
- - - Assumed features

Denotes brickwork

Notes

1. All dimensions shown in millimetres
2. Disturbed and environmental samples taken from 0.4m, 0.9m and 1.6m depths

Method of excavation	Title	Location reference
Hand tools	Trial pit record	TP09
Dimensions	Date of works	Location plan on drawing number
As shown	13.07.2016	01
Groundwater observations	Scale	Appendix
No groundwater encountered	1:15 at A3	C

F2 Chemical Data

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
Moisture	N	2030	%	0.020	7.5	18	20	12	10
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Beige	Brown
Other Material	N	2040		N/A	Sand	Stones	Stones	Stones	Stones
Soil Texture	N	2040		N/A	Sand	Clay	Clay	Sand	Clay
pH	M	2010		N/A	10.4	9.5	8.7	10.5	9.3
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	< 0.40	0.42	< 0.40	< 0.40	< 0.40
Cyanide (Complex)	M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	1.2	< 0.50
Cyanide (Free)	M	2300	mg/kg	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
Arsenic	M	2450	mg/kg	1.0	19	22	22	11	11
Beryllium	U	2450	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cadmium	M	2450	mg/kg	0.10	0.39	0.41	0.12	< 0.10	< 0.10
Chromium	M	2450	mg/kg	1.0	11	27	16	18	14
Copper	M	2450	mg/kg	0.50	16	100	130	15	19
Mercury	M	2450	mg/kg	0.10	0.82	2.3	11	0.36	1.1
Nickel	M	2450	mg/kg	0.50	10	28	21	12	13
Lead	M	2450	mg/kg	0.50	79	740	630	48	120
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20	0.27	< 0.20	< 0.20
Vanadium	U	2450	mg/kg	5.0	22	43	46	26	25
Zinc	M	2450	mg/kg	0.50	41	270	110	24	27
Chromium (Hexavalent)	N	2490	mg/kg	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
Naphthalene	M	2800	mg/kg	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
Acenaphthene	M	2800	mg/kg	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
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	0.52	0.19	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	1.5	0.38	< 0.10	< 0.10
Pyrene	M	2800	mg/kg	0.10	< 0.10	1.2	0.49	< 0.10	< 0.10
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	0.17	0.43	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	< 0.10	0.16	2.7	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	0.18	6.9	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	1.2	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	0.10	7.4	< 0.10	< 0.10

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	
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		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						
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	7.0	< 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
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	7.0	< 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	16
Total Phenols	M	2920	mg/kg	0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30

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- 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							Landfill Waste Acceptance Criteria Limits			
Chemtest Sample ID: 325826							Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample Ref: CS1										
Sample ID: 1-007										
Top Depth(m):										
Bottom Depth(m):										
Sampling Date: 13-Jul-2016										
Determinand	SOP	Accred.	Units							
Total Organic Carbon	2625	U	%				1.7	3	5	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	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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