SITE INVESTIGATION
FACTUAL REPORT

Report No:	169946
Client:	CRAWFORD CLAIMS MGMT SUS
Site:	51 Reddington Road, London
Client Ref:	SU1304913-Mrs Ratz
Date of Visit:	14/01/2014

Unit E2 First Floor Suite, Boundary Court
Willow Farm Business Park, Castle Donington
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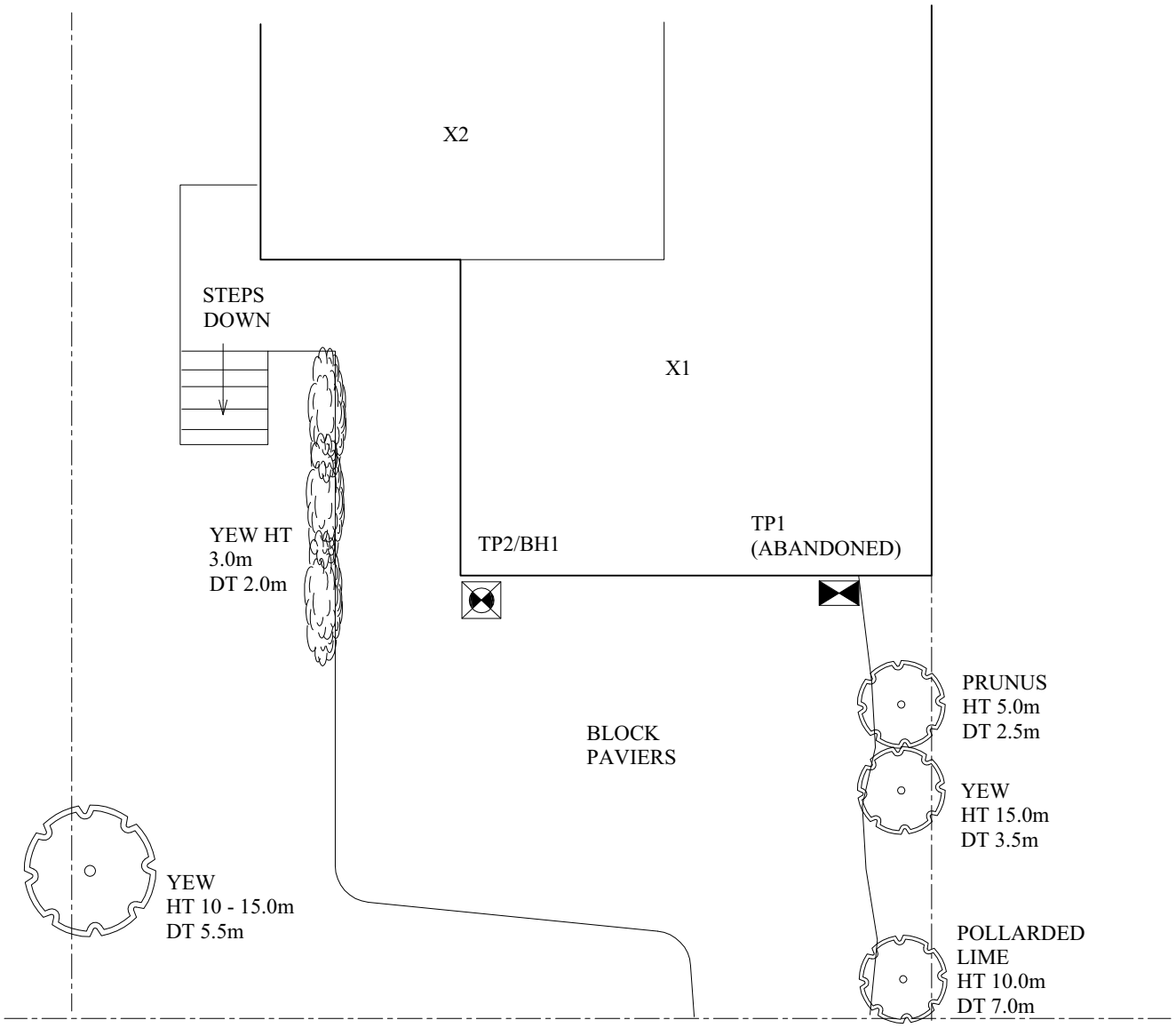
Site Investigation Layout

Sheet: 1 of 1
Job No: 169946E
Date: 14/01/14

Site: 51, Reddington Road, NW3
Work carried out for: Crawford Claims MGMT SUS

DB (SI) | SE (Checked) | Jo F (Drawn)

Weather: Dry



ON SITE TREE IDENTIFICATION FOR GUIDANCE ONLY. NOT AUTHENTICATED.

Remarks:

Key:

Combined Gulley	RWWG	Surface Water Drain	
Manhole	MH	Foul Water Drain	
Rain Water Pipe	RWP	Tree / Bush (approx. ht in m)	
Rain Water Gulley	RWG		
Soil Vent Pipe	SVP	Trial Pit	
Waste Gulley	WG	Borehole	
Waste Pipe	WP		

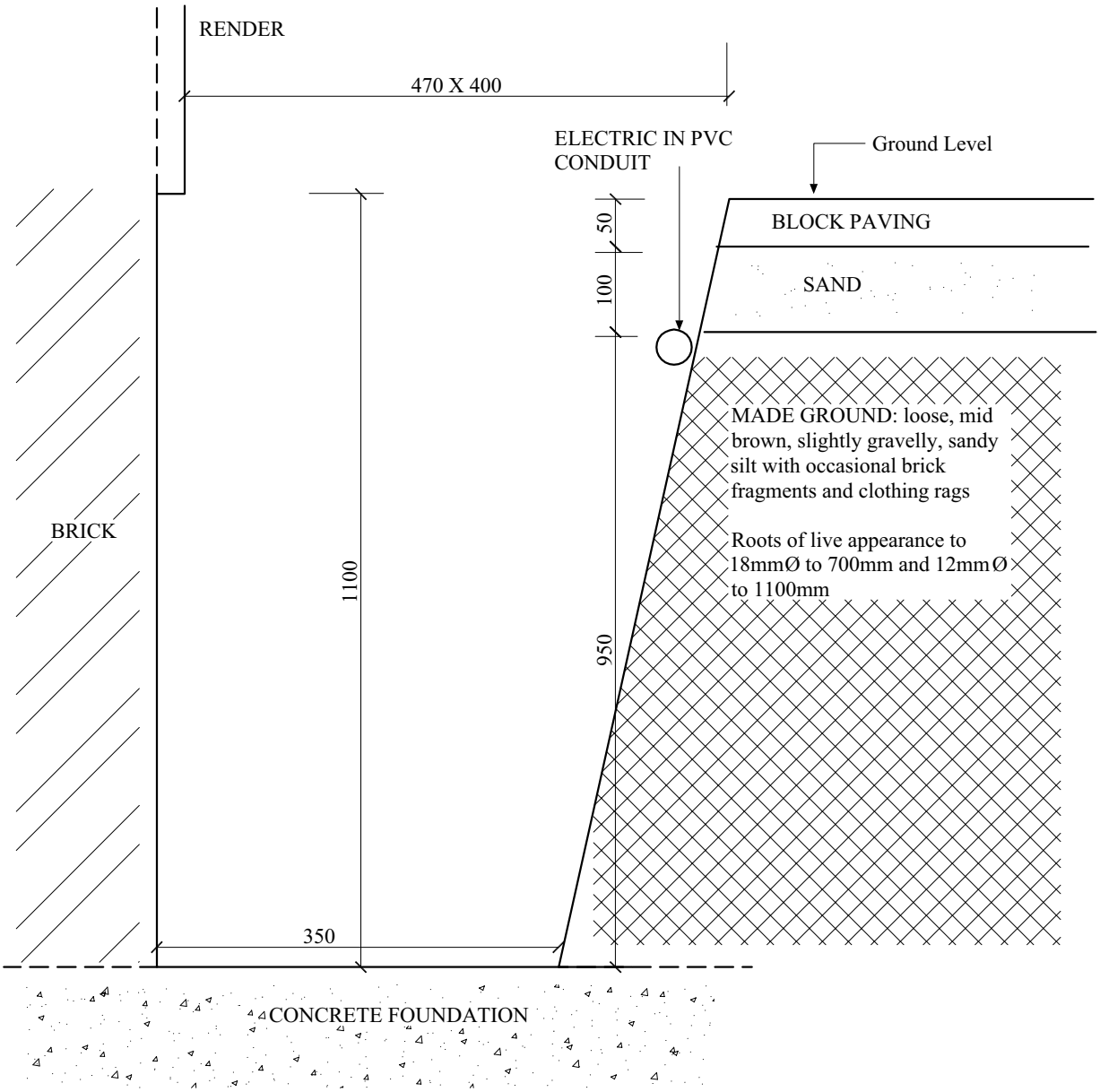
Scale: N.T.S.

Trial Pit No: 1

Sheet: 1 of 1
Job No: 169946E
Date: 14/01/14

Site: 51, Reddington Road, NW3
Work carried out for: Crawford Claims MGMT SUS

Excavation Method: Hand Tools
Weather: Dry
Drawn by: Jo F
Ground Level mOD:



TRIAL PIT ABANDONED AT 1100mm
CANNOT COME FURTHER BACK - ELECTRICITY SERVICE AT REAR OF TRIAL PIT

Remarks: All measurements in millimetres.

Key:
D Small disturbed sample
B Bulk disturbed sample
W Water sample
TDTD Too dense to drive
J Jar sample
V Pilcon Vane (kPa)
M Mackintosh probe

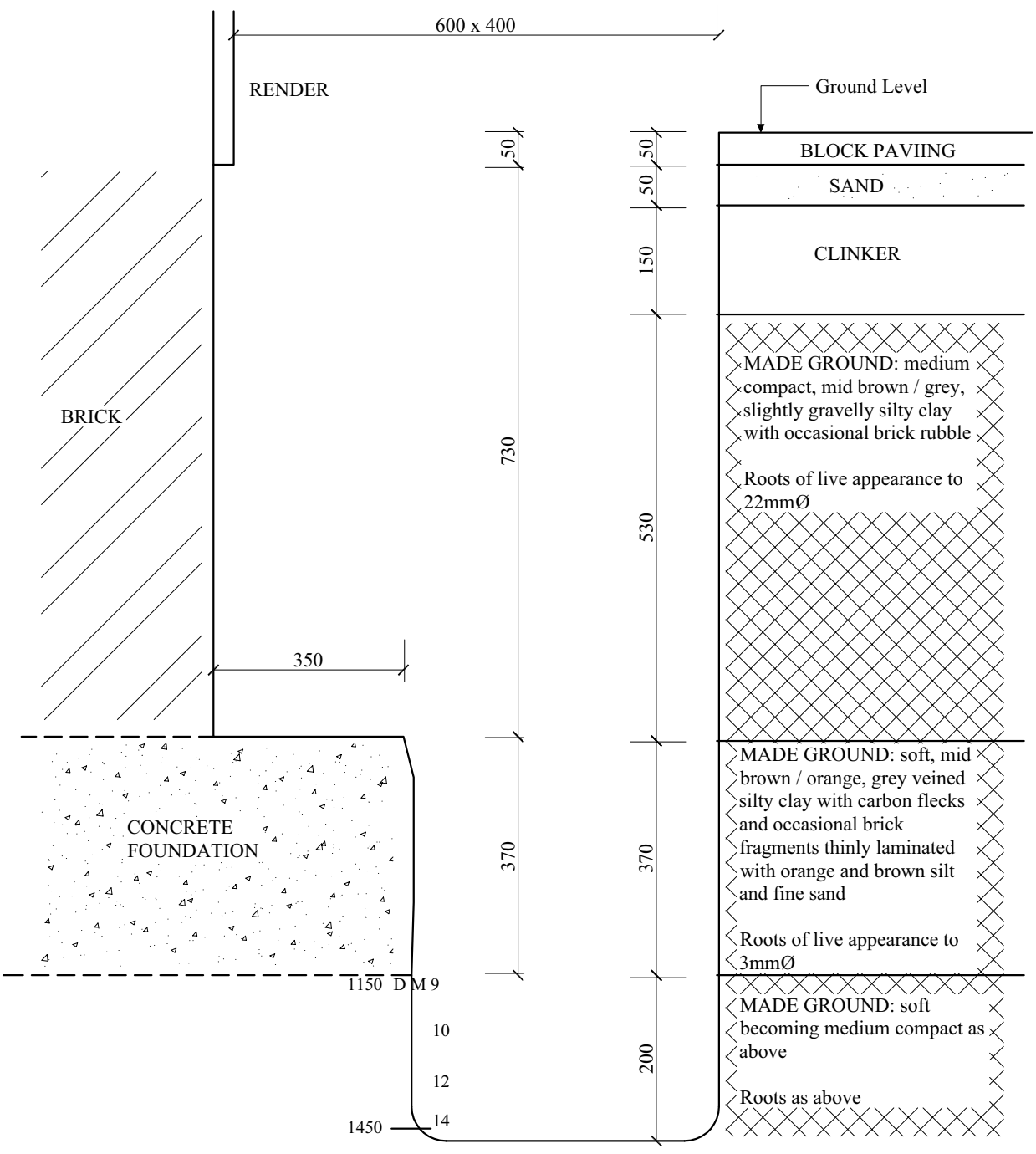
Logged: DB | Checked: SE | Approved: | Scale: N.T.S.

Trial Pit No: 2

Sheet: 1 of 1
Job No: 169946E
Date: 14/01/14

Site: 51, Reddington Road, NW3
Work carried out for: Crawford Claims MGMT SUS

Excavation Method: Hand Tools
Weather: Dry
Drawn by: Jo F
Ground Level mOD:



FOR STRATA BELOW 1350mm SEE BH LOG 1

Remarks:
All measurements in millimetres.
Curved steel pin hammered 250mm under foundation at 1150mm below ground level

Key:
D Small disturbed sample
B Bulk disturbed sample
W Water sample
TDTD Too dense to drive
J Jar sample
V Pilcon Vane (kPa)
M Mackintosh probe

Logged: DB | Checked: SE | Approved: | Scale: N.T.S.

Borehole No: 1

Sheet: 1 of 1

Job No: 169946E

Site: 51, Reddington Road, NW3

Boring Method: CFA

Date: 14/01/2014

Diameter: 100mm

Coordinates:

Ground Level mOD:

Work Carried out for: Crawford Claims MGMT SUS

Depth (m)	Description of Strata	Thick-ness (m)	Legend	Sample	Test Type	Test Result	Depth (m)	Field Records/Comments	Depth to water (m)
	As trial pit 2	1.35							
1.35	MADE GROUND: medium compact, mid brown / orange, grey veined silty clay with carbon flecks and occasional brick fragments thinly laminated with orange and brown silt and fine sand	0.65		D			1.50	Roots of live appearance to 2mm diameter to 2.0m	
2.00	MADE GROUND: medium compact, moist mid brown, grey veined silty clay with occasional brick fragments thinly laminated with orange and brown silt and fine sand	0.50		D	M	17 23 20 16	2.00	Roots of live appearance to 1mm diameter to 2.5m	
2.50	Stiff, mid brown / orange, grey veined silty CLAY thinly laminated with orange and brown silt and fine sand	0.50		D			2.50	No roots observed below 2.5m	
3.00	Very stiff as above Borehole ends at 3.0m			D	V	140+ 140+	3.00		

Remarks:
Borehole dry and open on completion
Borehole drilled in TP2

Key: T.D.T.D. Too Dense to Drive

D Small disturbed sample
J Jar sample
B Bulk disturbed sample
V Pilcon Vane (kPa)
W Water sample
M Mackintosh Probe

Logged: DB | Checked: SE | Drawn by Jo F | Scale: NTS | Weather: Dry

Our Ref : 169946

Laboratory Testing Results

Date Sampled: 14/01/2014

Location : 51, Reddington Road, NW3

Work carried out for: CRAWFORD CLAIMS MGMT SUS

Date Received : 15/01/2014

Date Tested : 16/01/2014

Date of Report : 17/01/2014

Sample Ref		Type	Moisture Content	Soil Fraction	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity Index	Modified Plasticity Index	Soil Class	Filter Paper Contact Time	Soil Sample Suction	In situ Shear Vane Strength	Organic Content	pH Value	Sulphate Content (g / l)		Class
TP/BH No	Depth (m)		(%) *[1]*	> 0.425mm (%) *[2]*	(%) *[3]*	(%) *[4]*	(%) *[5]*	*[5]*	(%) [6]	*[7]*	(h) *[8]*	(kPa)	(kPa) *[9]*	(%)*[10]*	*[11]*	SO_3 *[12]*	SO_4 *[13]*	*[14]*
TP2/	1.15(U/S)	D	26	<5	51	18	33	0.23	33	CH								
BH1	1.5	D	26	<5														
	2.0	D	28	<5	54	20	34	0.23	34	CH								
	2.5	D	25	<5														
	3.0	D	25	<5	57	19	38	0.14	38	CH			> 140					

Test Methods / Notes

[1] BS 1377 : Part 2 : 1990, Test No 3.2

[2] Estimated if <5%, otherwise measured

[3] BS 1377 : Part 2 : 1990, Test No 4.4

[4] BS 1377 : Part 2 : 1990, Test No 5.3

[5] BS 1377 : Part 2 : 1990, Test No 5.4

[6] BRE Digest 240 : 1993

[7] BS 5930 : 1981 : Figure 31 - Plasticity Chart for the classification of fine soils

[8] In-house method S9a adapted from BRE IP 4/93

[9] Values of shear strength were determined in situ by CET using a Pilcon hand vane or Geonor vane (GV).

[10] BS 1377 : Part 3 : 1990, Test No 4

[11] BS 1377 : Part 2 : 1990, Test No 9

[12] BS 1377 : Part 3 : 1990, Test No 5.6

[13] $SO_4 = 1.2 \times SO_3$

[14] BRE Special Digest One (Concrete in Aggressive Ground) August 2005

Note that if the SO_4 content falls into the DS-4 or DS-5 class, it would be prudent to consider the sample as falling into the DS-4m or DS-5m class respectively unless water soluble magnesium testing is undertaken to prove otherwise

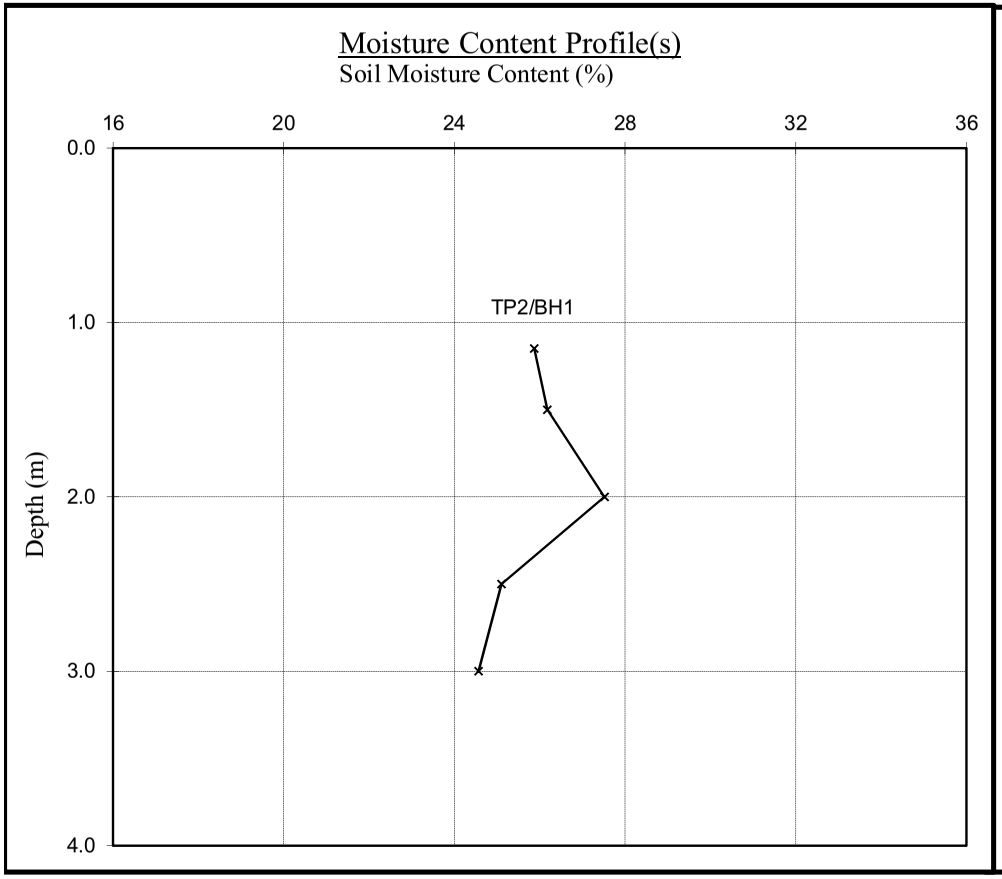
Key

D	Disturbed sample (small)
B	Disturbed sample (bulk)
U	Undisturbed sample
W	Groundwater sample
ENP	Essentially Non-Plastic by inspection
U/S	Underside of Foundation

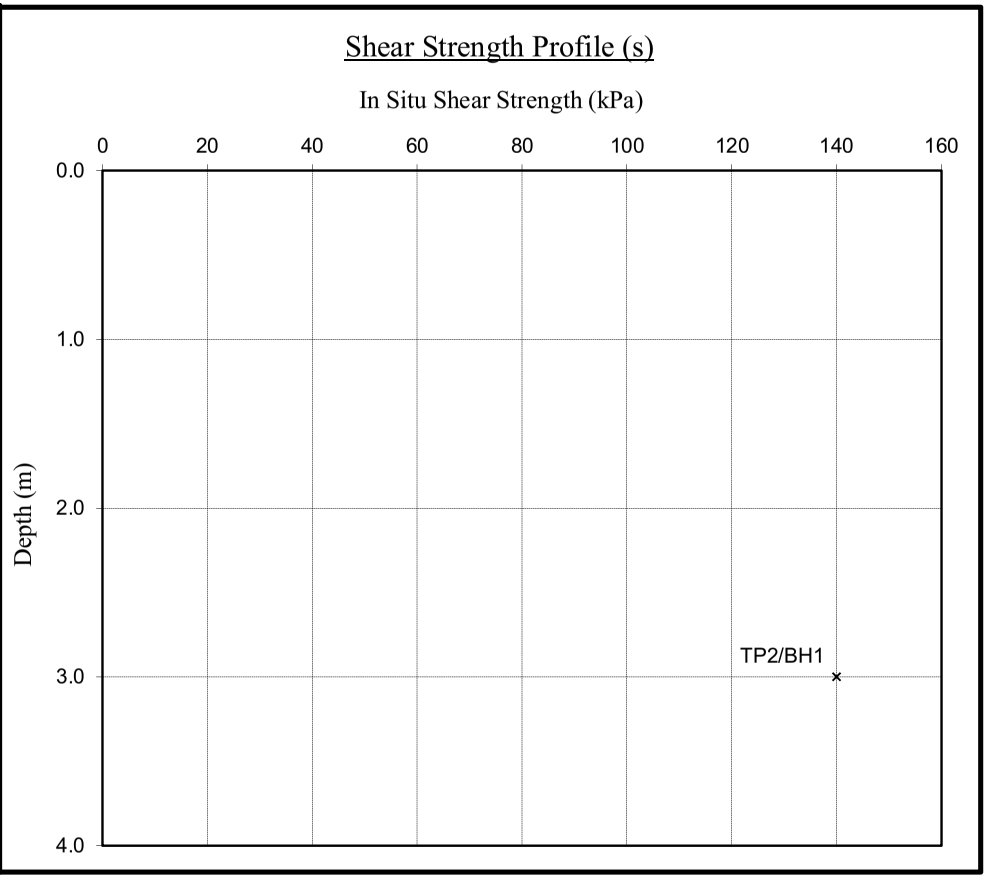
Moisture Content and Shear Strength Profiles

Our Ref :	169946	Date Sampled :	14/01/2014
Location :	51, Reddington Road, NW3	Date Received :	15/01/2014
Work carried out for:	CRAWFORD CLAIMS MGMT SUS	Date Tested :	16/01/2014
	Note : Unless specifically noted the profiles have not been related to a site datum.	Date of Report :	17/01/2014

Moisture Content Profile(s)



Shear Strength Profile (s)



Notes

1. If plotted, 0.4 LL and PL+2 (after Driscoll, 1983) should only be applied to London Clay (and similarly overconsolidated clays) at shallow depths.

Note

Unless otherwise stated, values of Shear Strength were determined in situ by CET using a Pilcon Hand Vane the calibration of which is limited to a maximum reading of 140 kPa.

Moisture Content and Suction Profiles

Our Ref : 169946

Location : 51, Reddington Road, NW3

Work carried out for: CRAWFORD CLAIMS MGMT SUS

Note : Unless specifically noted the profiles have not been related to a site datum.

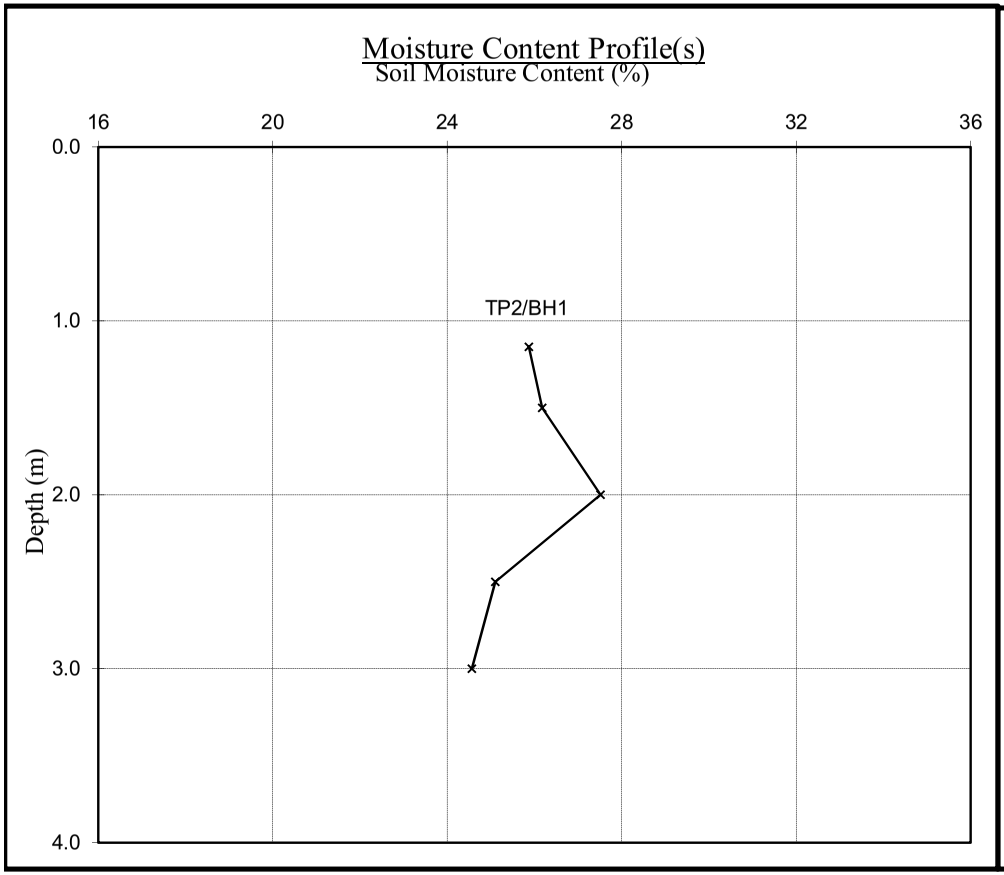
Date Sampled : 14/01/2014

Date Received : 15/01/2014

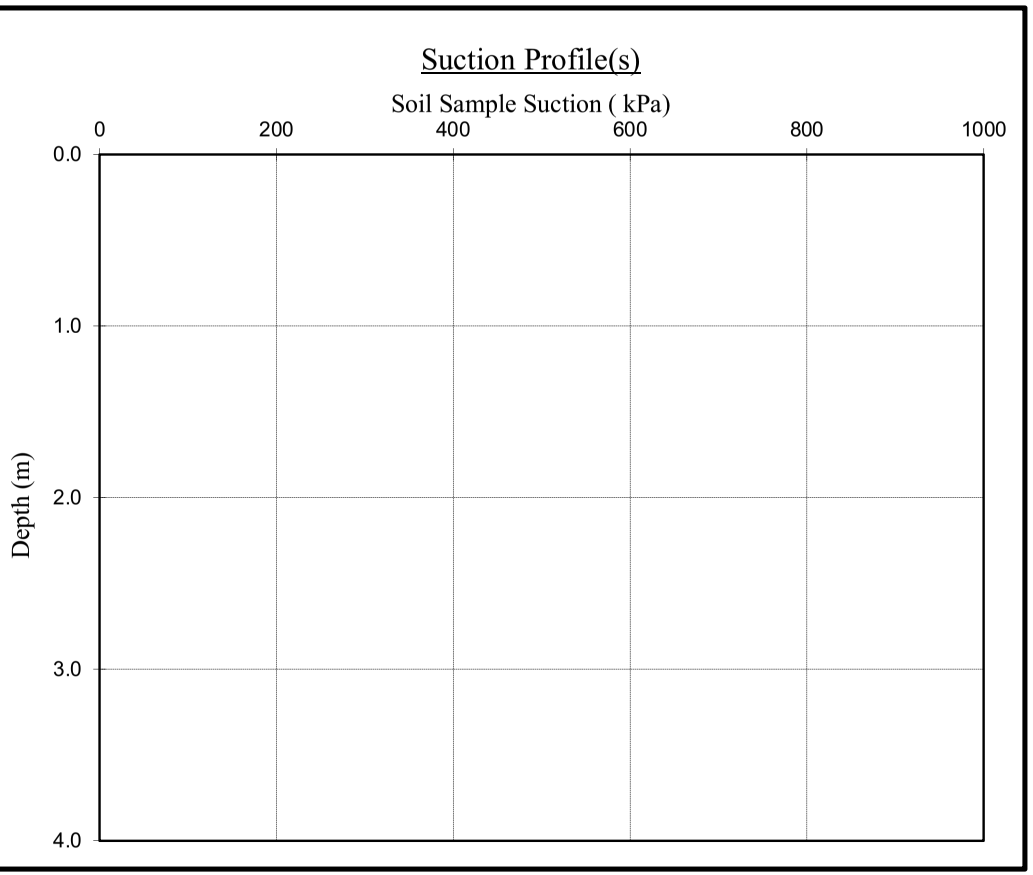
Date Tested : 16/01/2014

Date of Report : 17/01/2014

Moisture Content Profile(s)



Suction Profile(s)



Notes

1. If plotted, 0.4 LL and PL+2 (after Driscoll, 1983) should only be applied to London Clay (and similarly overconsolidated clays) at shallow depths.

Note

When shown, the theoretical equilibrium suction profiles are based on conventional assumptions associated with London Clay (and similarly overconsolidated clays) at shallow depths. Note that the sample disturbance component is dependant on the method of sampling and any subsequent recompaction. The above plots show this to be 100kPa which is the value suggested by the BRE on the basis of their limited number of tests on recompacted samples. This may or may not be appropriate in this instance and judgement should be exercised.

EPSL ***European Plant Science Laboratory***	Sheet: 1 of 1 Job No: **169946** Date: **21/01/2014** Order No: **509471** EPSL Ref: **R4431**	Site: **51 Reddington Road, London,** Work carried out for: **Crawford Claims MGMT SUS**

Certificate of Analysis

The following work was commissioned by CET on behalf of their client. Root samples were obtained in sealed packets from the above site with no reference given as to the types of tree or shrub from which they may have originated.
The results were as follows -

Trial pit/ Borehole number	**Root diameter (mm)**	**Tree, shrub or climber from which root originates**	**Result of starch test**
TP1 (1.1m)	12 mm	Tilia spp.	Positive
BH1 (1.5-2.0m)	2 mm	Tilia spp. 5 roots	Positive
TP2 (USF)	3 mm	Tilia spp. 5 roots	Positive

Tilia spp. are limes.

MDM

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