

## SITE INVESTIGATION FACTUAL REPORT

Report No: 246119  
Client: Crawford Claims Management  
Site: 4B Hampstead Hill Gardens, Hampstead  
  
Client Ref: SU1404491-  
Date of Visit: 13/02/2015



**Home Emergency Response - Subsidence Investigation - Drainage Services – Crack & Level Monitoring – Property Video Surveys**

Unit E2 First Floor Suite, Boundary Court  
Willow Farm Business Park, Castle Donington  
Leicestershire, DE74 2NN

☎ 0843 2272362  
✉ [enquiries@cet-uk.com](mailto:enquiries@cet-uk.com)  
🌐 [www.cet-uk.com](http://www.cet-uk.com)

CET is the trading name of CET Structures Ltd  
Registered in England No. 02527130

# Investigation Layout Plan

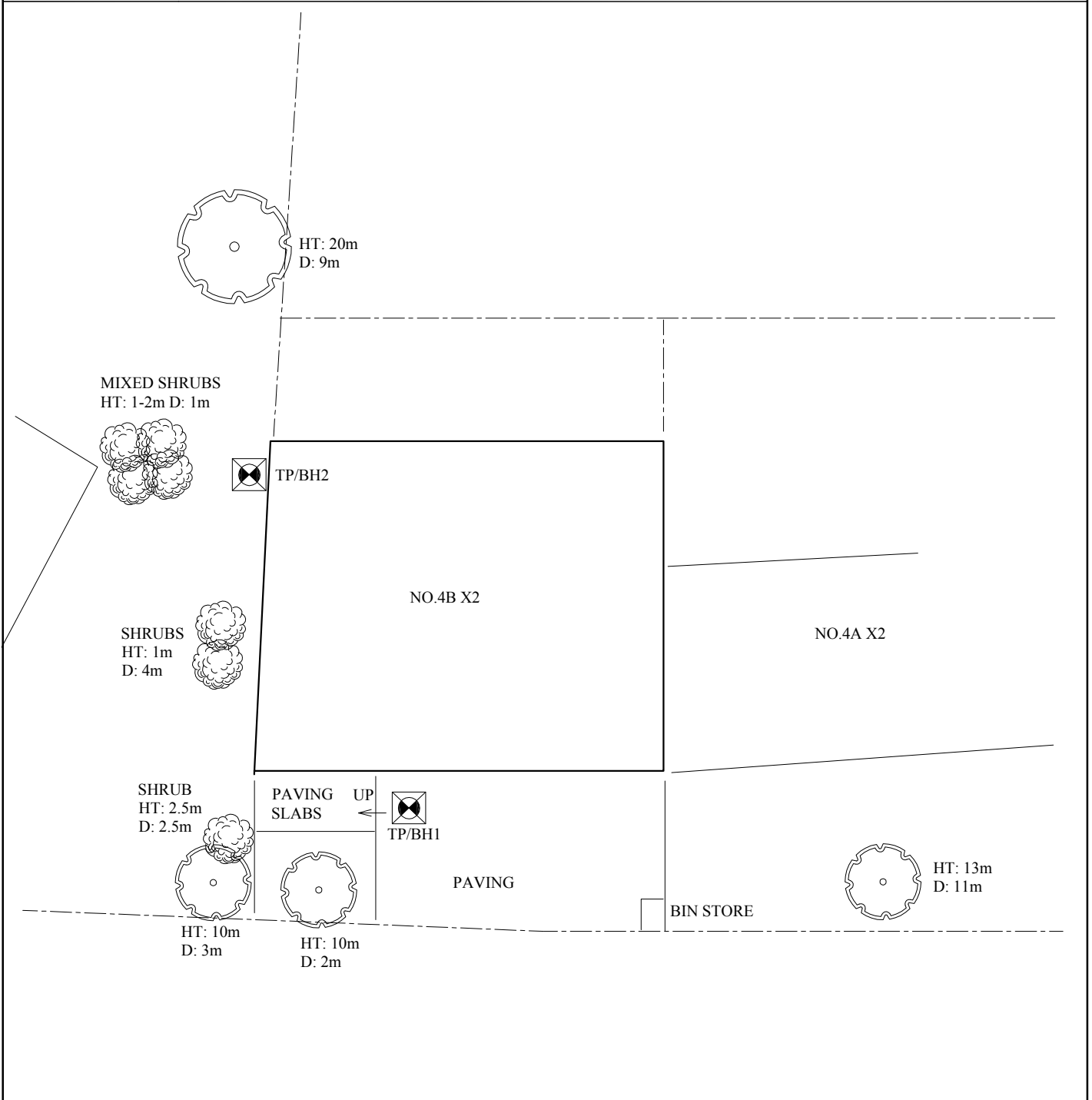
Sheet: 1 of 1  
Job No: 246119E  
Date: 13/02/2015

Site: 4B Hampstead Hill Gardens, NW3

SP (SI) SE (Checked) AR (Drawn)

Weather: Dry

Work carried out for: Crawford Claims MGMT SUS



Remarks:

Key:

Combined Gully RWWG  
Manhole MH  
Rain Water Pipe RWP  
Rain Water Gully RWG  
Soil Vent Pipe SVP  
Waste Gully WG  
Waste Pipe WP

Surface Water Drain

Foul Water Drain

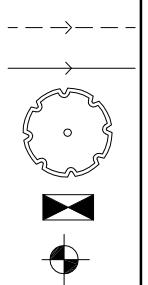
Tree / Bush

(approx. ht in m)

Trial Pit

Borehole

O/D - Open Discharge



Scale: N.T.S.

# Drainage Layout Plan

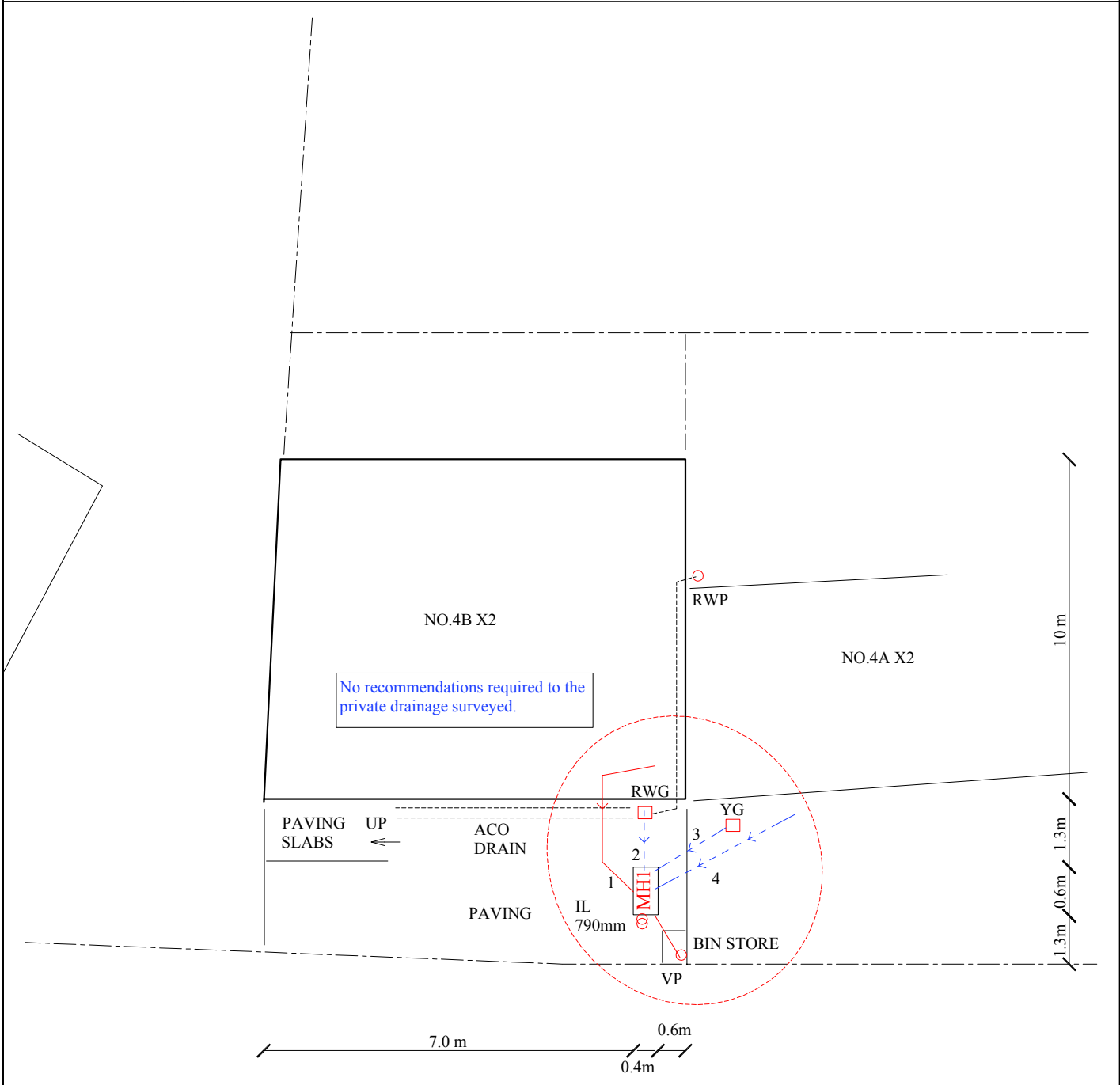
Sheet: 1 of 1  
 Job No: 246119E  
 Date: 13/02/2015

Site: 4B Hampstead Hill Gardens, NW3

SP (SI) MD (Checked) AR (Drawn)

Weather: DRY

Work carried out for: Crawford Claims MGMT SUS



ON SITE TREE IDENTIFICATION FOR GUIDANCE ONLY. NOT AUTHENTICATED.

Remarks:

Key:

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

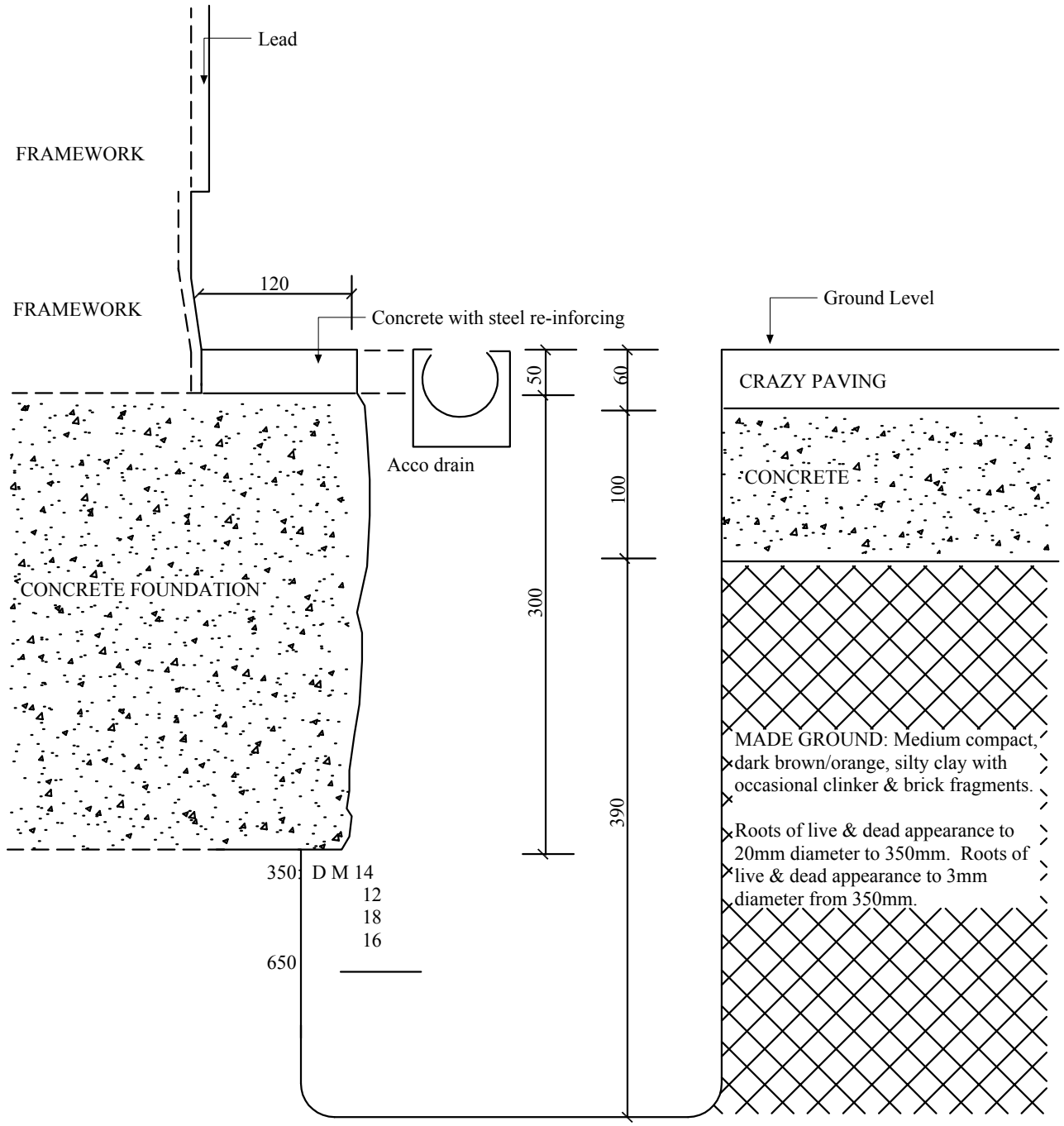
Scale: N.T.S.

# Trial Pit No: 1

Sheet: 1 of 1  
 Job No: 246119E  
 Date: 13.02.15

Site: 4b Hampstead Hill Gardens,  
 London NW3  
 Work carried out for: Crawford Claims Management Ltd

Excavation Method: Hand Tools  
 Weather: DRY  
 Drawn by: DVC  
 Ground Level mOD:



FOR STRATA BELOW 550mm SEE BH LOG 1

Remarks: All measurements in millimetres.

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

Logged: SP

Checked: SE

Approved:

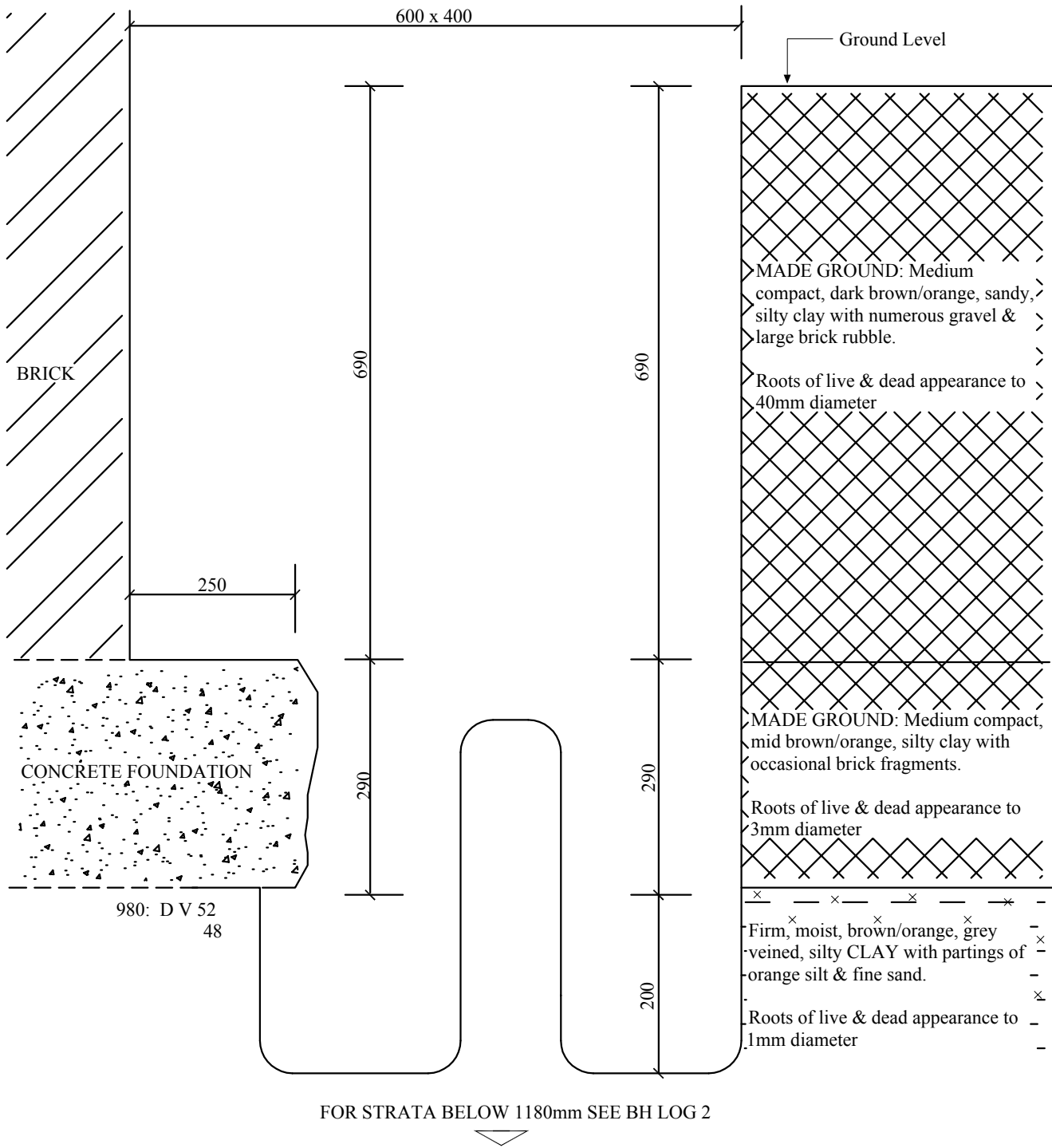
Scale: N.T.S.

# Trial Pit No: 2

Sheet: 1 of 1  
 Job No: 246119E  
 Date: 13.02.15

Site: 4b Hampstead Hill Gardens,  
 London NW3  
 Work carried out for: Crawford Claims Management Ltd

Excavation Method: Hand Tools  
 Drawn by: DVC  
 Weather: DRY  
 Ground Level mOD:



Remarks: All measurements in millimetres.  
 Water strike at 980mm. Standing water level at 1140mm in Trial Pit on completion. Borehole augered at rear of Trial Pit to avoid water

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

Logged: SP Checked: SE Approved: Scale: N.T.S.

Borehole No: 1		Sheet: 1 of 1			Site: 4b Hampstead Hill Gardens, London				
Boring Method: Hand Auger		Date: 13/02/2015							
Diameter: 80mm		Coordinates:			Ground Level mOD:		Work Carried out for: Crawford Claims Management Ltd		
Depth (m)	Description of Strata	Thick-ness (m)	Legend	Sample	Test Type	Result	Depth (m)	Field Records/Comments	Depth to water (m)
0.55	As Trial Pit 1	0.55						Roots of live & dead appearance to 2mm diameter to 2m	
0.80	MADE GROUND: Medium compact, dark brown/orange, silty clay with occasional clinker & brick fragments.	0.25							
1.50	Firm, mid brown/orange, grey veined, silty CLAY with partings of orange silt & fine sand.	0.70	— .x — — x — — —	D	V	70 68	1.00	No roots observed below 2m	
2.30	Very stiff, mid brown/orange, grey veined, silty CLAY with partings of orange silt & fine sand with occasional crystals.	0.80	— .x — — x — — —	D	V	140+ 140+	1.50		
	Borehole ends at 2.3m Obstruction - Too dense to hand auger								
Remarks: Borehole dry and open on completion					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: SP	Checked: SE	Typed by: DVC			Scale: NTS		Weather: DRY		

Borehole No: 2		Sheet: 1 of 1			Site: 4b Hampstead Hill Gardens, London				
Boring Method: Hand Auger		Date: 13/02/2015							
Diameter: 80mm		Coordinates:		Ground Level mOD:		Work Carried out for: Crawford Claims Management Ltd			
Depth (m)	Description of Strata	Thickness (m)	Legend	Sample	Test Type	Result	Depth (m)	Field Records/Comments	Depth to water (m)
1.16	As Trial Pit 2	1.16							
1.20	Firm, mid brown/orange, grey veined, silty CLAY with partings of orange silt & fine sand.	0.04	___x ___					Ropots of live & dead appearance to 1mm diameter to 1.4m	
			___x ___	D	V	86 88	1.50	Hair & fibrous roots to 2.6m	
	Stiff, mid brown/orange, grey veined, silty CLAY with partings of orange silt & fine sand with occasional crystals.	1.80	___x ___	D	V	92 98	2.00		
			___x ___	D	V	120 116	2.50	No roots observed below 2.6m	
3.00	Borehole ends at 3m		___	D	V	110 112	3.00		
Remarks: Borehole dry and open on completion				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: SP	Checked: SE	Typed by: DVC		Scale: NTS		Weather: DRY			

Our Ref : 246119

# Laboratory Testing Results

Date Sampled: 13/02/2015

Location : 4B, Hampstead Hill Gardens, NW3

Date Received : 16/02/2015

Work carried out for: Crawford Claims Management

Date Tested : 16/02/2015

Date of Report : 23/02/2015

Sample Ref		Type	Moisture Content (%) [1]	Soil Fraction > 0.425mm (%) [2]	Liquid Limit (%) [3]	Plastic Limit (%) [4]	Plasticity Index (%) [5]	Liquidity Index [5]	Modified Plasticity Index (%) [6]	Soil Class [7]	Filter Paper Contact Time (h) [8]	Soil Sample Suction (kPa)	In situ Shear Vane Strength (kPa) [9]	Organic Content (%) [10]	pH Value [11]	Sulphate Content (g/l)		Class [14]
TP/BH No	Depth (m)															SO3 [12]	SO4 [13]	
1	0.35(U/S)	D	26	22	48	20	28	0.20	22	CI	Not Suitable For Suction Testing (Made Ground)							
	1.0	D	26	<5							168	105	69					
	1.5	D	23	<5	73	24	49	-0.01	49	CV	168	624	> 140					
	2.0	D	28	<5	75	25	50	0.07	50	CV	168	589	> 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 Picon 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<sub>4</sub> = 1.2 x SO<sub>3</sub>
- [14] BRE Special Digest One (Concrete in Aggressive Ground) August 2005

Note that if the SO<sub>4</sub> 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



Our Ref : 246119

# Laboratory Testing Results

Date Sampled : 13/02/2015

Location : 4B, Hampstead Hill Gardens, NW3

Date Received : 16/02/2015

Work carried out for: Crawford Claims Management

Date Tested : 16/02/2015

Date of Report : 23/02/2015

Sample Ref.		Type	Moisture Content (%) [1]	Soil Fraction > 0.425mm (%) [2]	Liquid Limit (%) [3]	Plastic Limit (%) [4]	Plasticity Index (%) [5]	Liquidity Index [5]	Modified Plasticity Index (%) [6]	Soil Class [7]	Filter Paper Contact Time (h) [8]	Soil Sample Suction (kPa)	In situ Shear Vane Strength (kPa) [9]	Organic Content (%) [10]	pH Value [11]	Sulphate Content (g/l)		Class [14]		
TP/BH No.	Depth (m)															SO <sub>3</sub> [12]			SO <sub>4</sub> [13]	
2	0.98(U/S)	D	35	<5	77	28	49	0.14	49	CV	168	72.3	50							
	1.5	D	27	<5							168	381	87							
	2.0	D	34	<5	74	27	47	0.15	47	CV	168	335	95							
	2.5	D	33	<5							168	358	118							
	3.0	D	33	<5	77	30	47	0.07	47	CV	168	326	111							

**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 Pilon 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<sub>4</sub> = 1.2 x SO<sub>3</sub>
- [14] BRE Special Digest One (Concrete in Aggressive Ground) August 2005

Note that if the SO<sub>4</sub> 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

Our Ref : 246119

# Moisture Content and Suction Profiles

Date Sampled : 13/02/2015

Location : 4B, Hampstead Hill Gardens, NW3

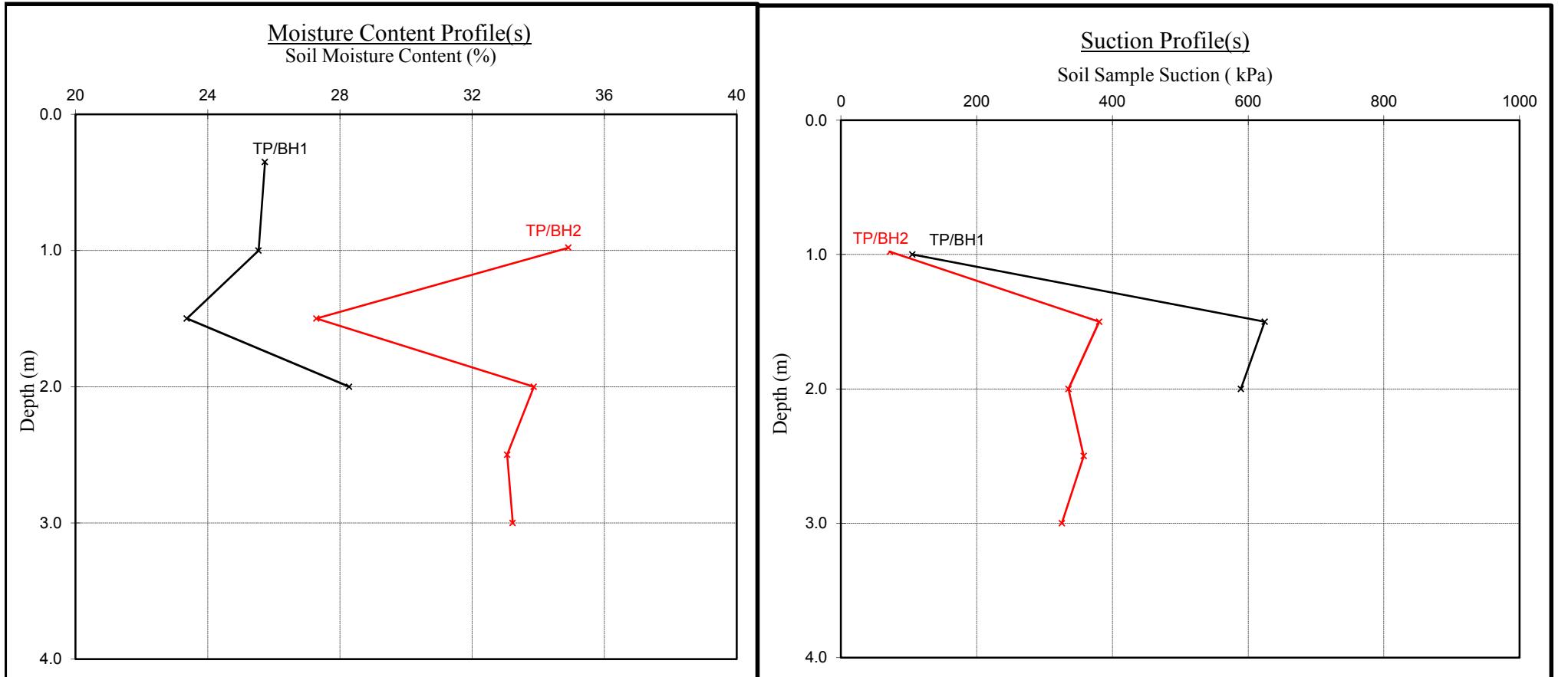
Date Received : 16/02/2015

Work carried out for: Crawford Claims Management

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

Date Tested : 16/02/2015

Date of Report : 23/02/2015



## 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.

Our Ref : 246119

# Moisture Content and Shear Strength Profiles

Date Sampled : 13/02/2015

Location : 4B, Hampstead Hill Gardens, NW3

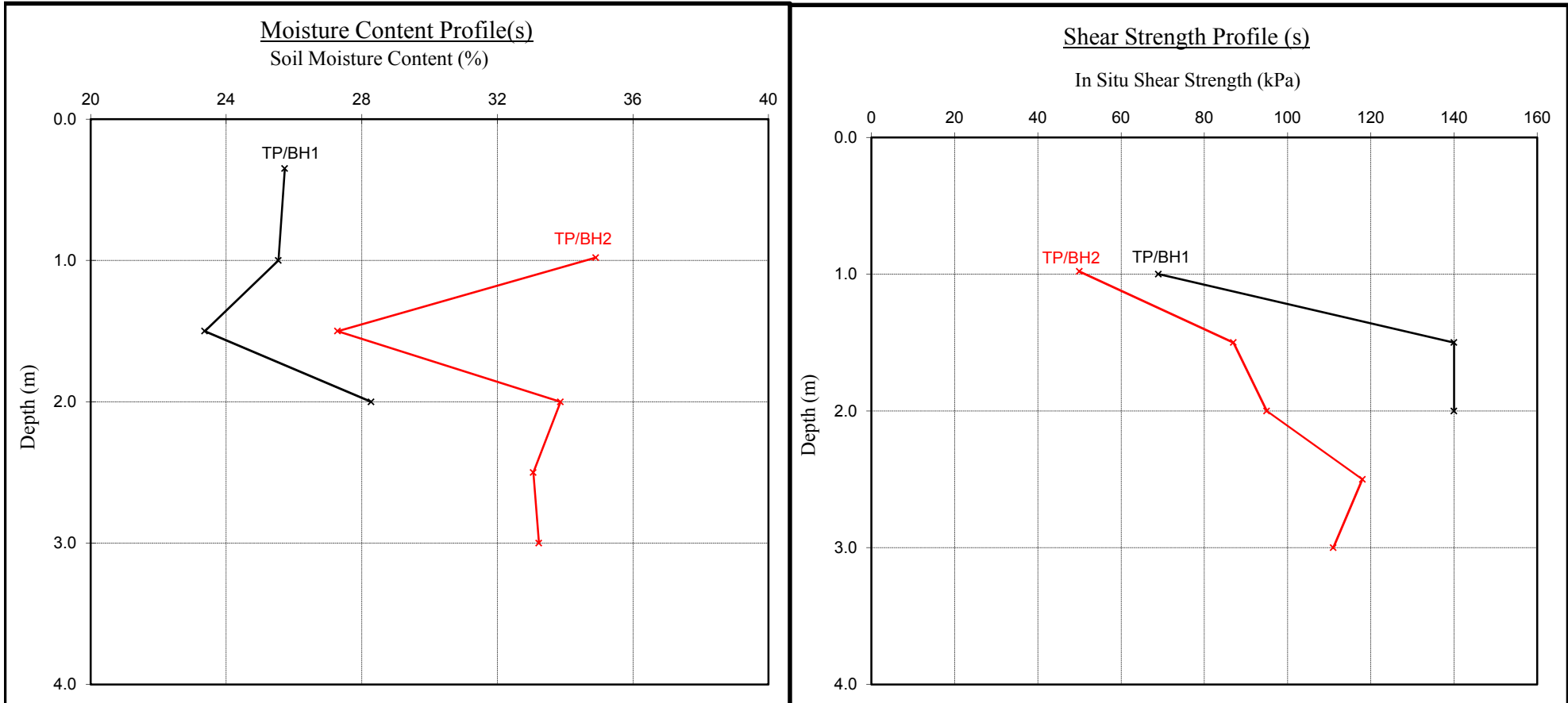
Date Received : 16/02/2015

Work carried out for: Crawford Claims Management

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

Date Tested : 16/02/2015

Date of Report : 23/02/2015



## 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.

Our Ref : 246119

# Moisture Content and Suction Profiles

Date Sampled : 13/02/2015

Location : 4B, Hampstead Hill Gardens, NW3

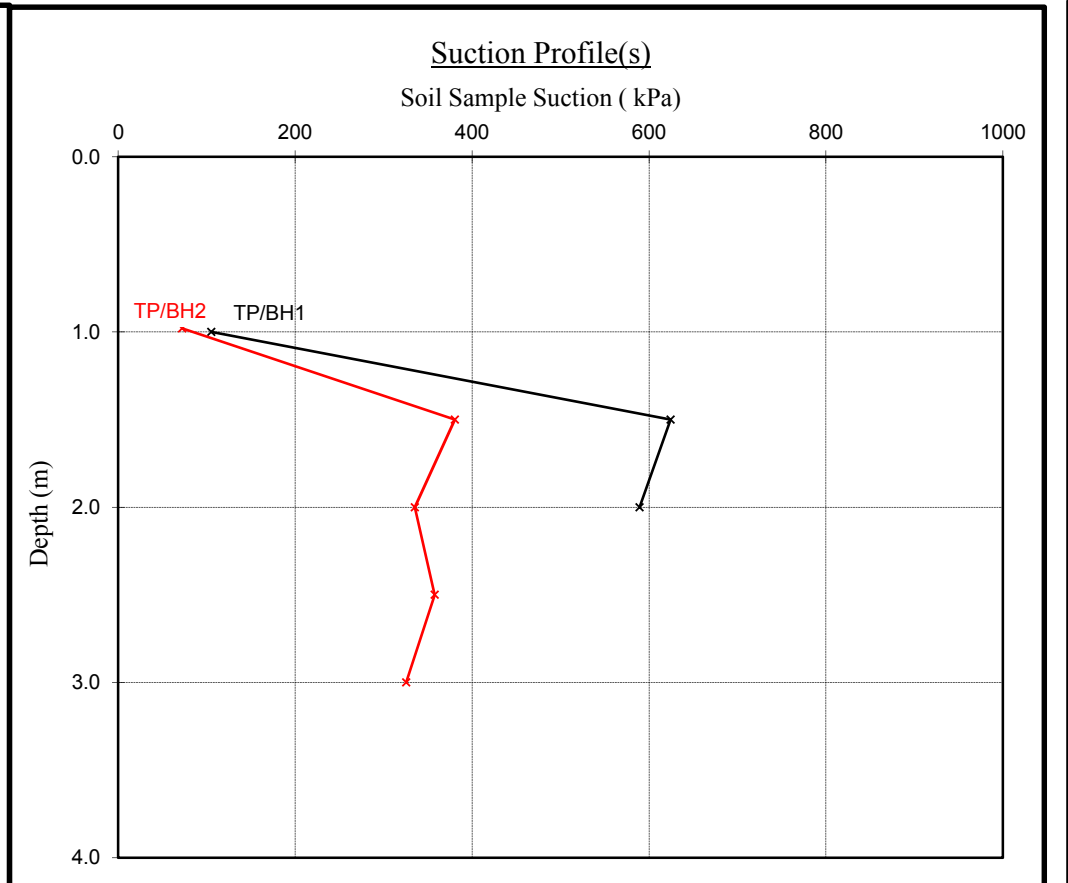
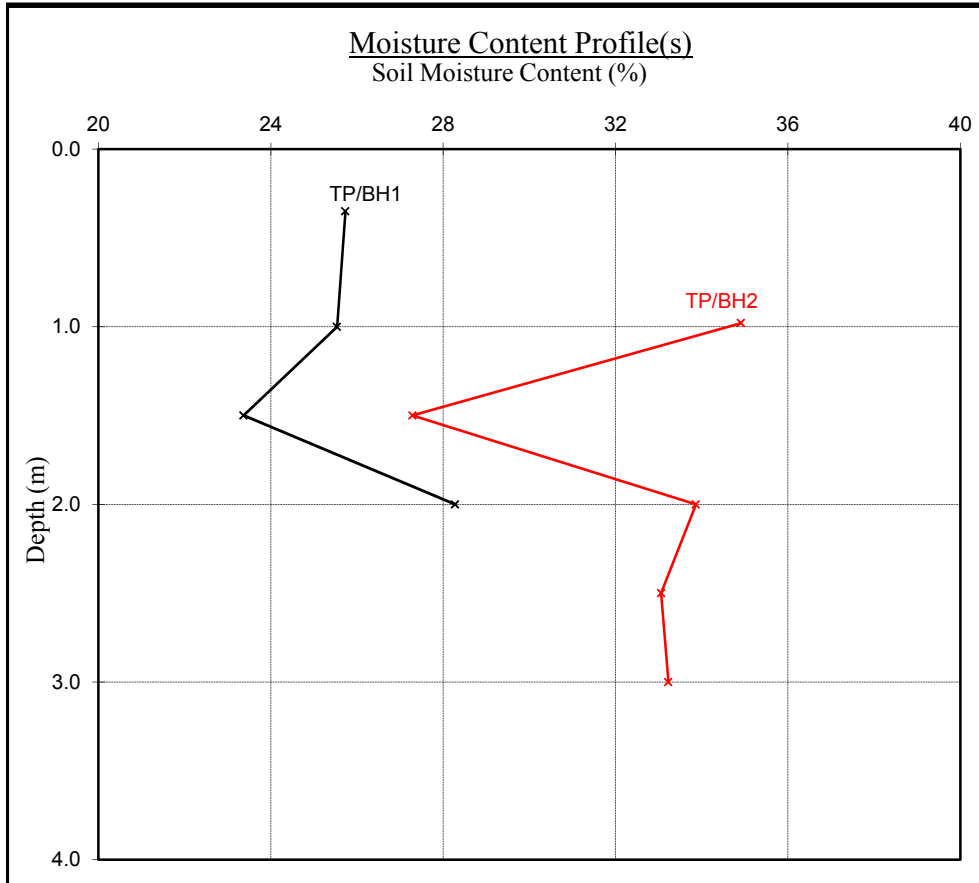
Date Received : 16/02/2015

Work carried out for: Crawford Claims Management

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

Date Tested : 16/02/2015

Date of Report : 23/02/2015



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.

***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 -

<b><u>Trial pit/ Borehole number</u></b>	<b><u>Root diameter (mm)</u></b>	<b><u>Tree, shrub or climber from which root originates</u></b>	<b><u>Result of starch test</u></b>
TP1 (USF)	3 mm	Carpinus spp. 5 roots	Positive
BH1 (to 2m)	2 mm	Carpinus spp. 5 roots	Positive
TP2 (USF)	1 mm	Carpinus spp.	Positive
TP2 (USF)	1 mm	Leguminosae spp. 3 roots	Positive
BH2 (to 1.4m)	<1 mm	Carpinus spp. 2 roots	Positive
BH2 (to 1.4m)	<1 mm	Leguminosae spp.	Positive

Carpinus spp. are hornbeams.

Leguminosae spp. include laburnum, Robinia (false acacia or locust), broom, the pagoda tree and the climber wisteria.

  
MDM

**Address for correspondence:** EPSL, Intec, Parc Menai, Bangor, Gwynedd, North Wales, LL57 4FG

**Telephone:** 01248 672 652

**e-mail:** lab@innovation-environmental.co.uk

**Head of Laboratory Services :** M D Mitchell B.Sc. (Hons), M.Phil.

**Plant Anatomist :** Dr G S Turner B.Sc. (Hons), M.Sc., Ph.D

**Plant Anatomist :** Dr D P Aebischer B.Sc. (Hons), M.Sc., Ph.D

**Consultant:** Dr M P Denne B.Sc. (Hons), M.Sc., Ph.D

Registered in England. No 3256771, Registered Office: Yarmouth House, 1300 Parkway, Solent Business Park, Hampshire, PO15 7AE

To:  
Ftao: Gordon McEwan

Crawford Claims Management

Client Ref: SU1404491

Job No: 246119

Site: 4B Hampstead Hill Gardens

Claim No:

Date: 16-Feb-15

**ESTIMATE**

Item		Amount
------	--	--------

No recommendations required to the private drainage surveyed.

Manhole 1 & the main run at the front of the property is shared, therefore owned by the water authority. Repairs may be the responsibility of the water authority.

**Notes**

Repairs to shared runs and off boundary pipe-work may be the responsibility of the water authority.

Total

£0.00

**Condition Grade**

A - Structurally sound with no leakage evident.

B - Cracks and fractures observed.

C - Structurally unsound

plus VAT @20%

£0.00

**Total + VAT**

**£0.00**

Quotation is binding only if accepted within 28 days from date of issue and is subject to our Standard Terms and Conditions  
The price qualification notes, stated on the drainage solutions schedule of rates, apply to this quotation.  
CET Structures Ltd undertakes to return to site free of charge to carry out remedial work to the drainage repairs set out above for a period of 2 months from the date of this invoice. The company standard charge rates will apply to the visit should the work requested be unrelated to the said repairs.

# Underground Drainage Report

Sheet: 1 of 2

Site: 4B Hampstead Hill Gardens

Job No: 246119

Work carried out for: Crawford Claims Management

Date: 13-Feb-15

## MANHOLE DETAILS

Manhole	Depth to Invert	Condition
MH1	790mm	As built

## CCTV Survey:-

### 1. Drainage Run:

From manhole 1 run 1 to upstream - 100mm clay foul water - upstream (not shared)

Metres:	Code:	Observations:	Surface Material/ Condition:
0.0		Start	Paving for 1.5m
0.4	LR	Line right	then under building
2.2	LR	Line right	
2.8	LU	Line up	
2.8	FH	Finish - reached U/S INT SVP	

**Water test:** Nowhere to bung

### 2 Drainage Run:

From manhole 1 run 2 to rain water gully 1 - 100mm clay surface water - upstream (not shared)

Metres:	Code:	Observations:	Surface Material/ Condition:
0.0		Start	Paving
0.0	WL	Water level 5%	
1.0	LU	Line up	
1.6	FH	Finish - reached RWG1	

**Gully condition:** As built

## **Water Test Grade:**

- |                    |                                |
|--------------------|--------------------------------|
| 0 - Unable to fill | 2 - Medium Loss over 2 minutes |
| 1 - Heavy Loss     | 3 - Slow Loss over 5 minutes   |
|                    | 4 - No Loss                    |

# Underground Drainage Report

Sheet: 2 of 2

Job No: 246119

Date: 13-Feb-15

Site: 4B Hampstead Hill Gardens

Work carried out for: Crawford Claims Management

### 3 Drainage Run:

From manhole 1 run 3 to upstream - 100mm clay surface water - upstream (shared off boundary)

Metres:	Code:	Observations:	Surface Material/ Condition:
0.0		Start	Paving for 1m
0.2	WL	Water level 10%	then off boundary
0.4	RFJ	Roots fine at joint	
0.8	DES	Debris silt 30%	
1.4	JDM	Joint displaced medium	
2.4	FH	Finish - reached YG off boundary	
<b>Water test:</b> Run off boundary			

### 4 Drainage Run:

From manhole 1 run 4 to upstream - 100mm clay surface water - upstream (shared off boundary)

Metres:	Code:	Observations:	Surface Material/ Condition:
0.0		Start	Paving for 1m
3.0	FH	Finish - reached U/S off boundary	then off boundary
<b>Water test:</b> Run off boundary			

**- End of Survey -**

*Our assessment of the drainage system is based on our visual inspection and on information collated at the time of the survey. Where assumptions have been made these are based on our experience and do not constitute any form of guarantee, nor do we guarantee that further deterioration will not occur following this survey. CCTV video records will be stored for a period of 3 months from date of inspection and then destroyed.*

### Water Test Grade:

0 - Unable to fill	2 - Medium Loss over 2 minutes
1 - Heavy Loss	3 - Slow Loss over 5 minutes
	4 - No Loss



## Water Authority Sewer Condition Codes

<b>B</b> Broken pipe at... (or from... to...) o'clock	<b>JN</b> Junction at...o'clock, diameter...mm
<b>BR</b> Branch Major	<b>JX</b> Junction defective at.. o'clock, diameter.. mm
<b>CC</b> Crack circumferential from... to... o'clock	<b>LC</b> Lining of sewer changes/starts/finishes at this point
<b>CL</b> Crack longitudinal @... o'clock	<b>LD</b> Line of sewer deviates down
<b>CM</b> Cracks multiple from... to... o'clock	<b>LL</b> Line of sewer deviates left
<b>CN</b> Connection at... o'clock, diameter... mm	<b>LN</b> Line defect at (or from.. to.. ) o'clock
<b>CNI</b> Connection at... o'clock, diameter... mm, intrusion... r	<b>LR</b> Line of sewer deviates right
<b>CU</b> Camera under water	<b>LU</b> Line of sewer deviates up
<b>CX</b> Connection defective at... o'clock	<b>MB</b> Missing bricks at.. (or from.. to..) o'clock
<b>CXI</b> Connection defective at... o'clock, diameter... mm, intrusion... mm	<b>MC</b> Material of sewer changes at this point
<b>D</b> Deformed sewer... %	<b>MH</b> Manhole/node
<b>DB</b> Displaced bricks at (or from.. to..) o'clock	<b>MM</b> Mortar missing medium at.. (or from.. to..) o'clock
<b>DC</b> Dimension of sewer changes at this point	<b>MS</b> Mortar missing surface at.. (or from.. to..) o'clock
<b>DE</b> Debris (non silt/grease)... % cross-sectional loss	<b>MT</b> Mortar missing total at.. (or from.. to..) o'clock
<b>DEG</b> Debris grease... % cross-sectional area loss	<b>OB</b> Obstruction... % height/diameter loss
<b>DES</b> Debris silt... % cross-sectional area loss	<b>OJL</b> Open joint large
<b>DI</b> Dropped invert, gap... mm	<b>OJM</b> Open joint medium
<b>EHJ</b> Encrustation heavy from.. to.. o'clock % cross-sectional area loss (at joint)	<b>PC</b> Length of pipe forming sewer changes at this point, new length...mm
<b>ELJ</b> Encrustation light from.. to.. o'clock%	<b>RFJ</b> Roots fine (at joint)
<b>EMJ</b> Encrustation medium from.. to.. o'clock %, cross-sectional area loss (at joint)	<b>RMJ</b> Roots mass... % cross-sectional area loss (at joint)
<b>ESH</b> Scale heavy... % cross-sectional area loss from... to.. o'clock	<b>RTJ</b> Roots tap (at joint)
<b>ESL</b> Scale light from... to... o'clock	<b>SA</b> Survey abandoned
<b>ESM</b> Scale medium... % cross-sectional area loss from... to... o'clock	<b>SC</b> Shape of sewer changes at this point
<b>FC</b> Fracture circumferential from... to... o'clock	<b>SSL</b> Surface damage, spalling large at (or from.. to..) o'clock
<b>FL</b> Fracture longitudinal at... o'clock	<b>SSM</b> Surface damage, spalling medium at (or from.. to..) o'clock
<b>FM</b> Fractures multiple from... to... o'clock	<b>SSS</b> Surface damage, spalling slight at (or from.. to..) o'clock
<b>GO</b> General observation at this point	<b>SWL</b> Surface damage, wear large at... (or from.. to..) o'clock
<b>GP</b> General photograph number... taken at this point	<b>SWM</b> Surface damage, wear medium at... (or from.. to..) o'clock
<b>H</b> Hole in sewer at... o'clock	<b>SWS</b> Surface damage, wear slight at.. (or from.. to..) o'clock
<b>IDJ</b> Infiltration dripper at (or from... to...) o'clock (at joint)	<b>V</b> Vermin (rats and mice)
<b>IGJ</b> Infiltration gusher at (or from... to...) o'clock (at joint)	<b>WL</b> Water level... % height/diameter
<b>IRJ</b> Infiltration runner at (or from... to...) o'clock (at joint)	<b>X</b> Sewer collapsed... % cross-sectional area loss
<b>ISJ</b> Infiltration seep at (or from... to...) o'clock (at joint)	<b>FH</b> End of survey
<b>JDM</b> Joint displaced medium	
<b>JDL</b> Joint displaced large	

