



Geotechnical Survey Report

FSI Ref: [REDACTED]
Issue Date: February 2019
Risk Address: 31 Inglewood Road
London
NW6 1QT
Engineer: Matt Deller
Company: CRAWFORDS
Claim Ref: [REDACTED]

Managing Director:	Martin Rush MSc FGS
Finance Director:	Louise Ayres BSc (Hons)
Geotechnical Compliance & Logistics Supervisor:	Perry Martin MCIHT
Laboratory Supervisor:	Jade McLellan
Assistant Geologists:	George Baron BSc (Hons) FGS Scott Parker BSc (Hons) FGS

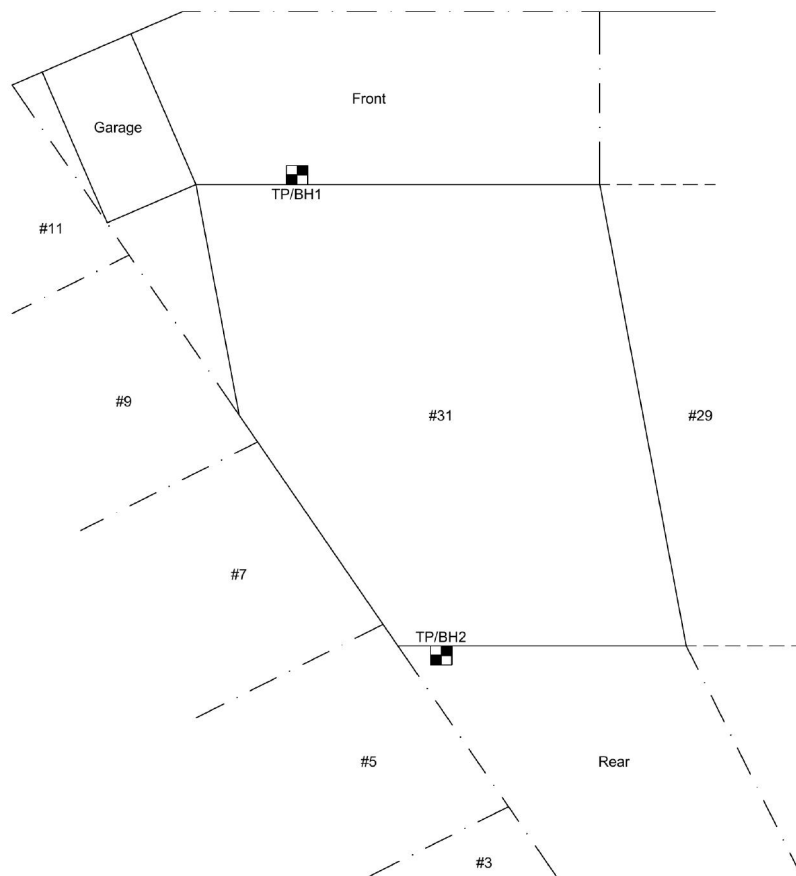
SITE PLAN

Property Address: 31 Inglewood Road, London NW6 1QT

Client Claim Ref:

Survey date: 22/12/2018

Operative: SE1



Scale:	Drawn by:	Key:											
NTS	GB		Trial Pit	Borehole	Manholes	Manholes	Rain Water Pipe	Soil & Vent Pipe	Surface Water Gully	Foul Water Gully	Shrub	Tree (Conifer)	Tree (Deciduous)

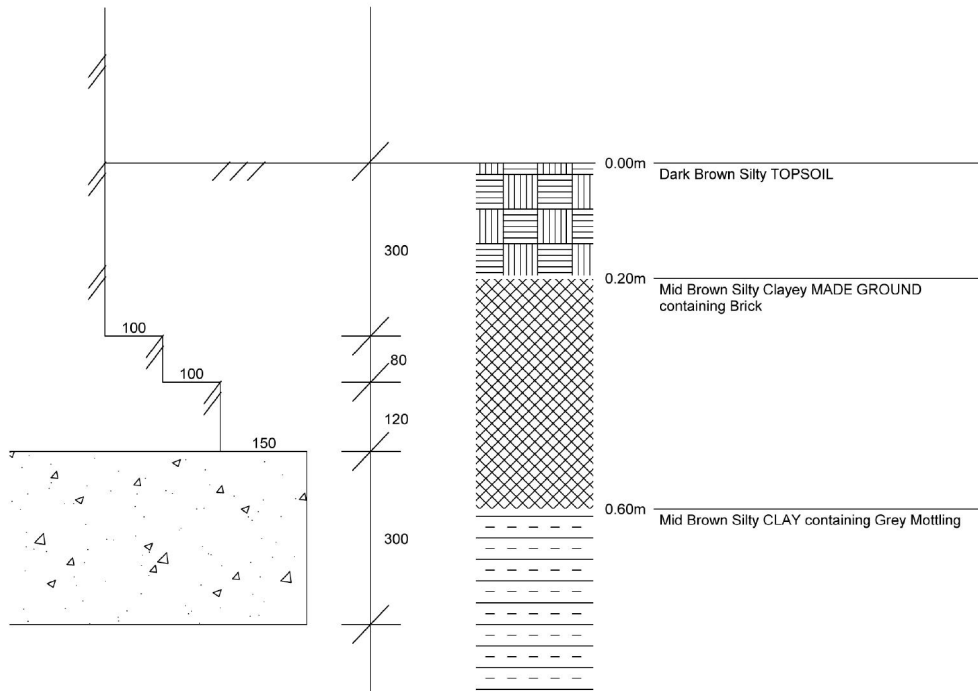
TRIAL PIT 1

Property Address: 31 Inglewood Road, London NW6 1QT

Client Claim Ref:

Survey date: 22/12/2018

Operative: SE1



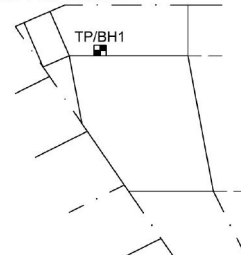
D1 @ F.L. (0.80m)

V = 72-74kPa

Founding strata: Mid Brown Silty CLAY containing Grey Mottling

D= small disturbed sample, B= large bulk sample, U= undisturbed sample,
MP= mackintosh probe blow counts, V= shear vane reading (kPa)

Trial Pit Location:

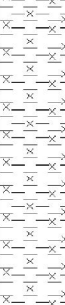


Drawn by:

GB

Scale:

1:10

				Borehole Log		Borehole No. BH1 Sheet 1 of 1	
Project Name: 			Project No. 		Site Date: 22/12/2018		Hole Type BH
Location:		31 Inglewood Road, London NW6 1QT					Scale 1:20
Client:		Crawford					Logged By SE1
Water Strikes	Sample and In Situ Testing			Depth (m)	Legend	Stratum Description	
	Depth (m)	Type	Results				
				0.20		Dark Brown Silty TOPSOIL	
				0.60		Mid Brown Silty Clayey MADE GROUND containing Brick <i>Foundation Top - 0.30m; Brick and Concrete construct. Two Brick step-outs both projecting 100mm; 80mm & 120mm thick respectively onto Concrete projecting a further 150mm, 300mm thick.</i>	
	0.80	D	V (kPa) = 72 V (kPa) = 74	1.70		Mid Brown Silty CLAY containing Grey Mottling <i>Foundation Level - 0.80m Roots noted at 0.80m, Hairlike-3mm in diameter</i>	1
	1.50	D	V (kPa) = 90 V (kPa) = 92				
	2.00	D	V (kPa) = 110 V (kPa) = 112				2
	2.50	D	V (kPa) = 116 V (kPa) = 120				
	3.00	D	V (kPa) = 140	3.00		Mid Brown Silty CLAY containing Grey Mottling and Claystone fragments <i>Gypsum noted from 2.80m</i>	3
						End of Borehole at 3.000m	4
Key: D - Disturbed Sample V - Insitu Vane Test MP - Mackintosh Probe Test							
Remarks: Borehole closed at 3.00m. Borehole noted to be dry on completion.							
							

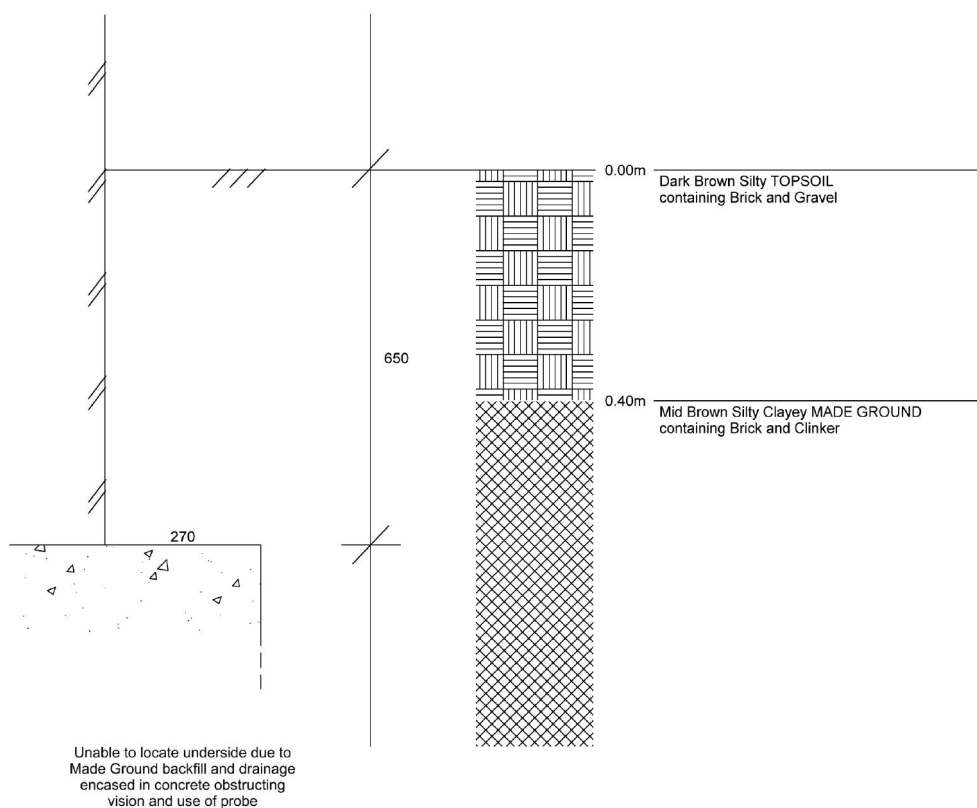
TRIAL PIT 2

Property Address: 31 Inglewood Road, London NW6 1QT

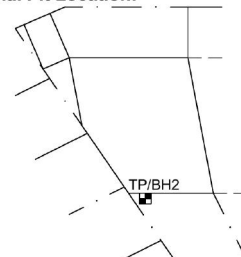
Client Claim Ref:

Survey date: 22/12/2018

Operative: SE1



Trial Pit Location:



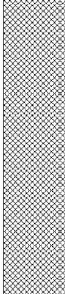
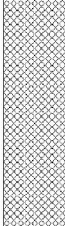
Drawn by:

GB

Scale:

1:10

D= small disturbed sample, B= large bulk sample, U= undisturbed sample,
MP= mackintosh probe blow counts, V= shear vane reading (kPa)

				Borehole Log		Borehole No. BH2 Sheet 1 of 1	
Project Name: 			Project No. 		Site Date: 22/12/2018		Hole Type BH
Location:		31 Inglewood Road, London NW6 1QT					Scale 1:15
Client:		Crawford					Logged By SE1
Water Strikes	Sample and In Situ Testing			Depth (m)	Legend	Stratum Description	
	Depth (m)	Type	Results				
				0.40		Dark Brown Silty TOPSOIL containing Brick and Gravel	
	1.00	D	MP = 17/75mm MP = 17/75mm MP = 19/75mm MP = 20/75mm	1.20		Mid Brown Silty Clayey MADE GROUND containing Brick and Clinker <i>Roots noted at 1.00m, Hairlike-2mm in diameter</i>	1
	1.50	D	MP = 24/75mm MP = 25/75mm MP = 25/75mm MP = 27/75mm	1.80		Dark Brown Silty Clayey MADE GROUND containing Brick/Hardcore Backfill and Clinker <i>Roots noted at 1.50m, 1-8mm in diameter</i>	
	2.00	D	V (kPa) = 140	2.50		Mid Brown Silty CLAY <i>Roots noted at 2.00m, Hairlike-1mm in diameter</i> <i>Grey Mottling noted from 2.40m</i>	2
	2.50	D	V (kPa) = 140			End of Borehole at 2.500m	3
Key: D - Disturbed Sample V - Insitu Vane Test MP - Mackintosh Probe Test							
Remarks: Borehole closed at 2.50m due to Made Ground backfill. Borehole noted to be dry on completion.							
							



Appendix No: 3
FSI Ref: [REDACTED]

LABORATORY RESULTS

Property Address: 31 Inglewood Road, London, NW6 1QT

Client Claim Ref: [REDACTED]

Client: Crawford

SAMPLE DETAILS		ANALYSIS REQUESTED	
Investigation date:	22/12/2018	Moisture Content	☒ PSD ☐
Sample details:	Bags as received	Liquid Limit	☒ Soil Suction ☐
Samples received:	03/01/2019	Plastic Limit	☒ Shear Strength ☐
Schedule recieved:	03/01/2019	Plasticity Index	☒ Contamination ☐
Samples tested:	03/01/2019 - 06/02/2019	Root ID	☒ Root/Tree DNA ☐
Results reported:	06/02/2019	Other (please state)	☐

TEST DETAILS

General

Sample descriptions were written in accordance with BS 5930:1999.

Samples were prepared in accordance with BS 1377: Part 1: 1990, section 7

Samples from this contract will be retained for 1 calendar month following the issue of this report unless otherwise notified

Written approval is required from Fastrack Site Investigations Limited to reproduce report in full. The results shown within this report only relate to the samples tested

Moisture Content

Samples were tested in accordance with BS 1377: Part 2: 1990, section 3.2 (Oven drying method)

In accordance with Note 1 to paragraph 3.2.4 of BS 1377 Part 2 1990; these moisture contents have been corrected to give the equivalent moisture content of the fraction passing the 425µm sieve, to enable comparison with the liquid & plastic limits. (If condition of test is 'natural' the retained percentage is an estimated value, if condition is 'washed' the percentage is a measured value).

Samples are dried at 105-110°C unless otherwise stated.

Atterberg Limits

Samples were tested in accordance with BS 1377: Part 2: 1990, section 4.3 (4 drop LL), 4.4 (1 drop LL), 5.3 (PL) and 5.4 (PI)

Test results on samples with a sand content, may show less accurate results. If condition of test is 'washed' results relate to the fraction passing the 425µm sieve only.

* Driscoll's rules deem the soil to be desiccated where the moisture content is less than the value calculated using driscoll's rule 1 and/or 2

Particle Size Distribution

Samples were tested in accordance with BS 1377: Part 2: 1990 section 9.2 (Wet sieving method)

Undrained Shear Strength

Samples were prepared in accordance with BS 1377: Part 7: 1990 section 8.3 and testing in accordance with BS 1377: Part 7: 1990: section 8.4 (undrained shear strength in triaxial compression without measurement of pore pressure (UU))

Soil Suction

Samples were prepared and tested based on the BRE digest No:IP4/93 (Corrected). 'A method of determining the state of desiccation in clay soils.' (Filter paper method).

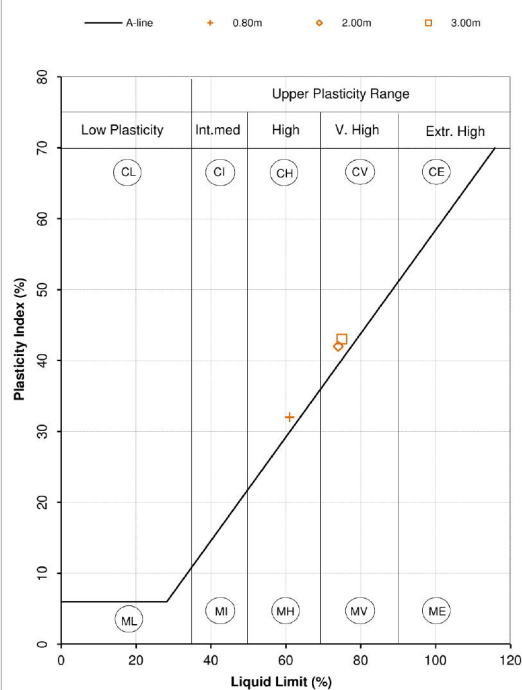
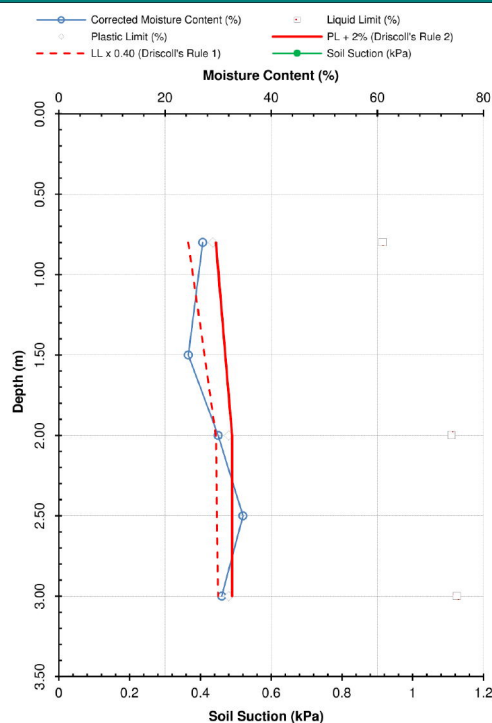
Test results on samples with a sand or silt content, may show less accurate results. Deviation to standard procedure - Polythene bags are not used from weighing filter papers.

LABORATORY RESULTS

Property Address:	31 Inglewood Road, London, NW6 1QT
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Client Claim Ref:

BOREHOLE 1

[illegible]

Comments: Due to the presence of gypsum, samples were placed in an oven at 75°C.

Issued by: ☐ Jade McLellan (Laboratory Manager)
☒ L Appleby-Bowers (Laboratory Technician)

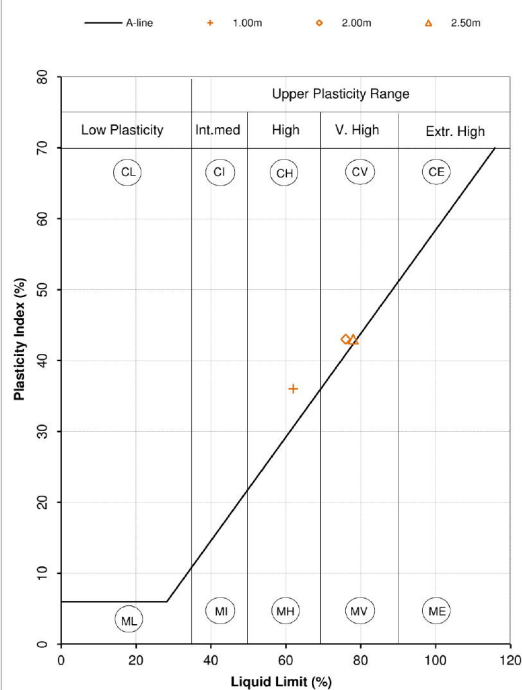
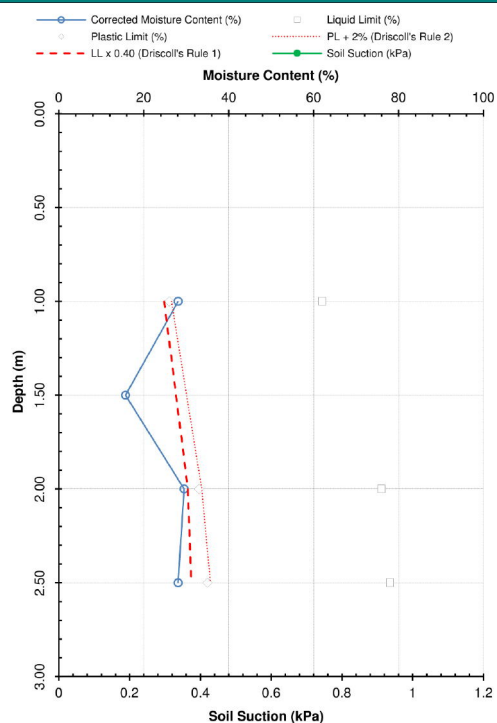
Signed: L Appleby-Bowers

LABORATORY RESULTS

Property Address:	31 Inglewood Road, London, NW6 1QT
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Client Claim Ref:

BOREHOLE 2

[illegible]

Comments: Due to the presence of gypsum, samples were placed in an oven at 75°C.

Issued by: ☐ Jade McLellan (Laboratory Manager)
☒ L Appleby-Bowers (Laboratory Technician)

Signed: L Appleby-Bowers

Fastrack Site Investigations Ltd
Unit 9 Tyndales Farm
Southend Road
Woodham Mortimer
Essex
CM9 6TQ

Intec



ROOT IDENTIFICATION

312 Inglewood Road, London, NW6 1QT

Client Reference: [REDACTED]
Report Date: 11 January 2019
Our Ref: R27475

Sub Sample	Species Identified		Root Diameter	Starch
BH1:				
FL	Pomoideae gp.		1.5 mm	Abundant
FL	too decayed for identification		3 mm	Absent
BH2:				
1m	Cupressaceae spp.	1	1.5 mm	Abundant
1.5m	Cupressaceae spp.	2	7 mm	Abundant
2m	Cupressaceae spp.	3	1 mm	Abundant

Comments:

- 1 - Plus 1 other also identified as Cupressaceae spp. Fragments of bark and wood.
- 2 - Plus 2 others also identified as Cupressaceae spp.
- 3 - Plus 2 others also identified as Cupressaceae spp.

Pomoideae gp include apple, cotoneaster, hawthorn, pear, pyracantha, quince, rowan, snowy mespil and whitebeam.
Cupressaceae spp. include Lawson cypress, western red cedar, Monterey cypress, Leyland cypress and junipers.

Signed: M D Mitchell

Unless we are otherwise instructed in writing, the above sample material will normally be disposed of 6 years after the date of this report.