Geotechnical Survey Report

FSI Ref:	25787
Issue Date:	January 2023
Risk Address:	25 Kingston Hill Kingston upon Thames Surrey KT2 7PW
Engineer:	[redacted]
Company:	Claims Consortium Group
Claim Ref:	KH21292818

Managing Director: Finance Director:	[redacted]
Geotechnical Compliance & Logistics Supervisor:	[redacted]
Laboratory Manager:	[redacted]
Senior Geologist: Assistant Geologist: Geotechnical Assistant:	[redacted]

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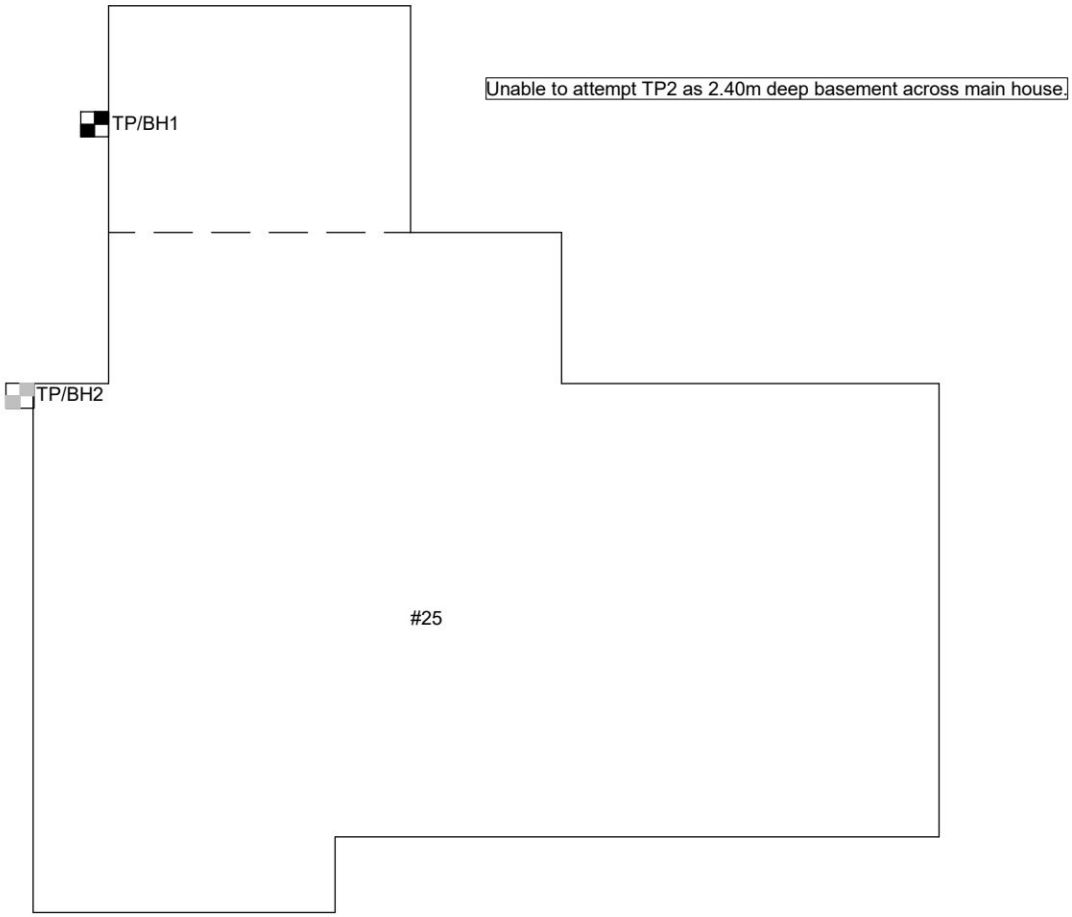
Appendix No: 1
FSI Ref: 25787

SITE PLAN

Property Address: 25 Kingston Hill, Kingston upon Thames, Surrey, KT2 7PW
Client Claim Ref: KH21292818 **Survey date:** 03/01/2023 **Operative:** SE1



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

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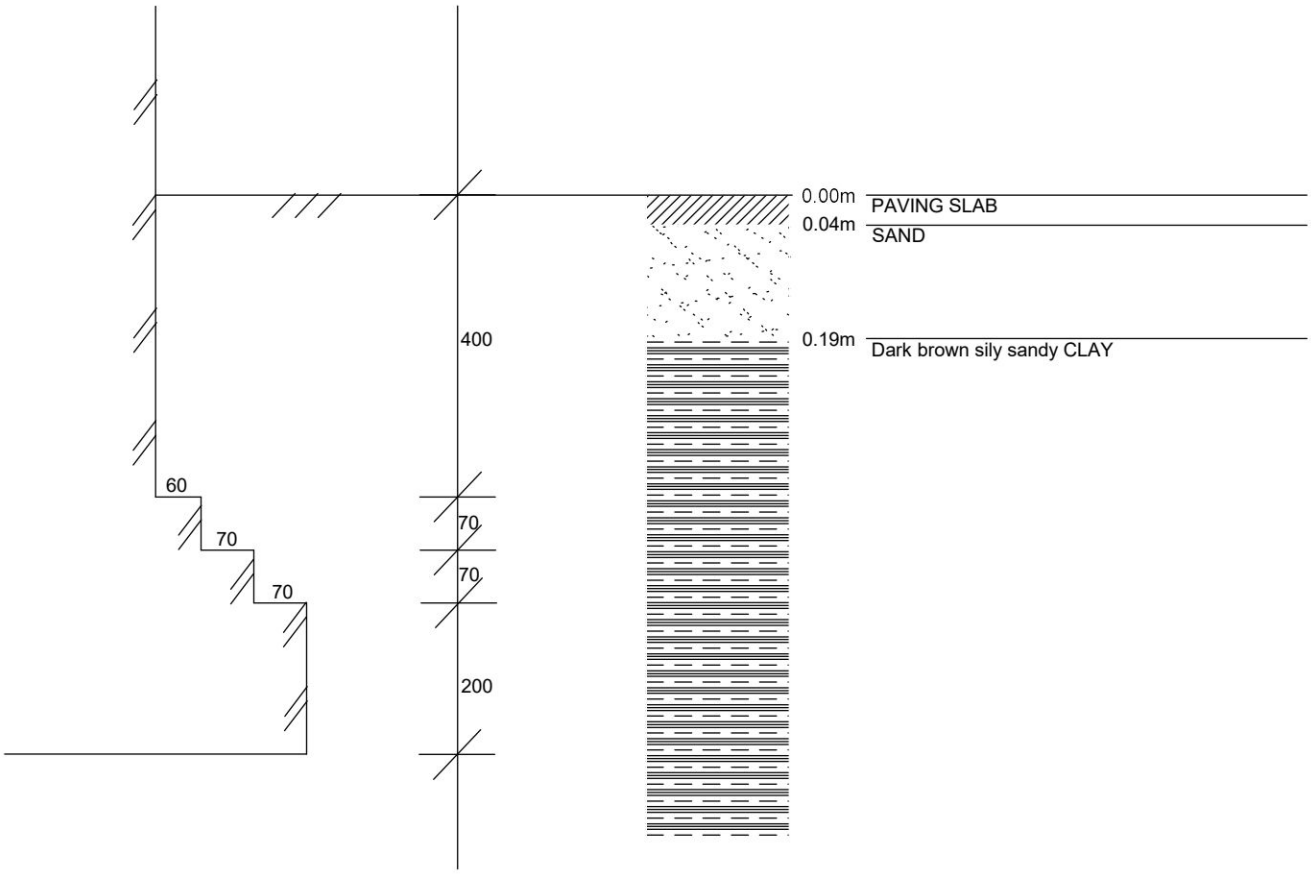
Appendix No: 2
FSI Ref: 25787

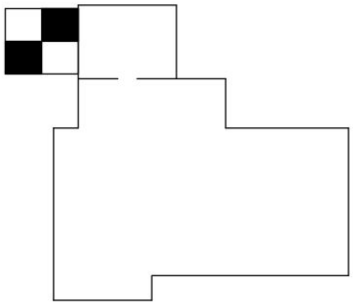
TRIAL PIT 1

Property Address: 25 Kingston Hill, Kingston upon Thames, Surrey, KT2 7PW
Client Claim Ref: KH21292818 **Survey date:**03/01/2023 **Operative:** SE1



D1 @ F.L. (0.74m)
V = 94-100kPa
Founding strata: Dark brown silty sandy CLAY

Trial Pit Location:



Drawn by: BW

Scale: 1:10

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

FASTRACK	Fastrack Site Investigations Ltd Unit 9, Tyndales Farm Southend Road Maldon CM9 6TQ	Borehole Log	Borehole No. **BH1** Sheet 1 of 1

Project Name:	KH21292818	Project No. 25787	Site Date: 03/01/2023	Hole Type BH
Location:	25 Kingston Hill, Kingston upon Thames, Surrey, KT2 7PW			Scale 1:17
Client:	Claims Consortium Group			Logged By SE1

Water Strikes	Sample and In Situ Testing			Depth (m)	Legend	Stratum Description
	Depth (m)	Type	Results			
				0.04		PAVING SLAB SAND
				0.19		Dark brown silty sandy CLAY
						Foundation top-0.40m (multiple brick constructs projecting 60mm 70mm and 70mm with thicknesses of 70mm 70mm and 200mm respectively)
	0.74	D	V (kPa) = 100 V (kPa) = 94			*Foundation level-0.74m* *Roots noted at F/L*
				0.80		Mid brown/orange CLAY
						CLAY noted to be mid brown in colour and contain grey mottle and scattered sand pockets by 1.20m
	1.50	D	V (kPa) = 118 V (kPa) = 120			*Roots noted at 1.50m*
	2.00	D	V (kPa) = 120 V (kPa) = 122			*Roots noted at 2.00m* *CLAY noted to contain grey mottles by 2.10m*
	2.50	D	V (kPa) = 128 V (kPa) = 130			
	3.00	D	V (kPa) = 140	3.00		End of Borehole at 3.000m

1 2 3

Key: D - Disturbed Sample V - Insitu Vane Test MP - Mackintosh Probe Test

Remarks: Borehole closed at 3.00m on completion.
Borehole noted to be dry on completion.

AGS

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Appendix No: 3
FSI Ref: 25787

LABORATORY RESULTS

Property Address: 25 Kingston Hill, Kingston Upon Thames, Surrey, KT2 7PW
Client Claim Ref: KH21292818 **Client:** Claims Consortium Group

SAMPLE DETAILS

Investigation date:	**03/01/2023**
Sample details:	**Bags as received**
Samples received:	**05/01/2023**
Schedule recieved:	**05/01/2023**
Samples tested:	**09/01/2023-12/01/2023**
Results reported:	**12/01/2023**

ANALYSIS REQUESTED

Moisture Content	☑	PSD	☐
Liquid Limit	☑	Soil Suction	☐
Plastic Limit	☑	Shear Strength	☐
Plasticity Index	☑	Contamination	☐
Root ID	☑	Root/Tree DNA	☐
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 calender 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^{o}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 desicated 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 Stength

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.

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Appendix No: 3
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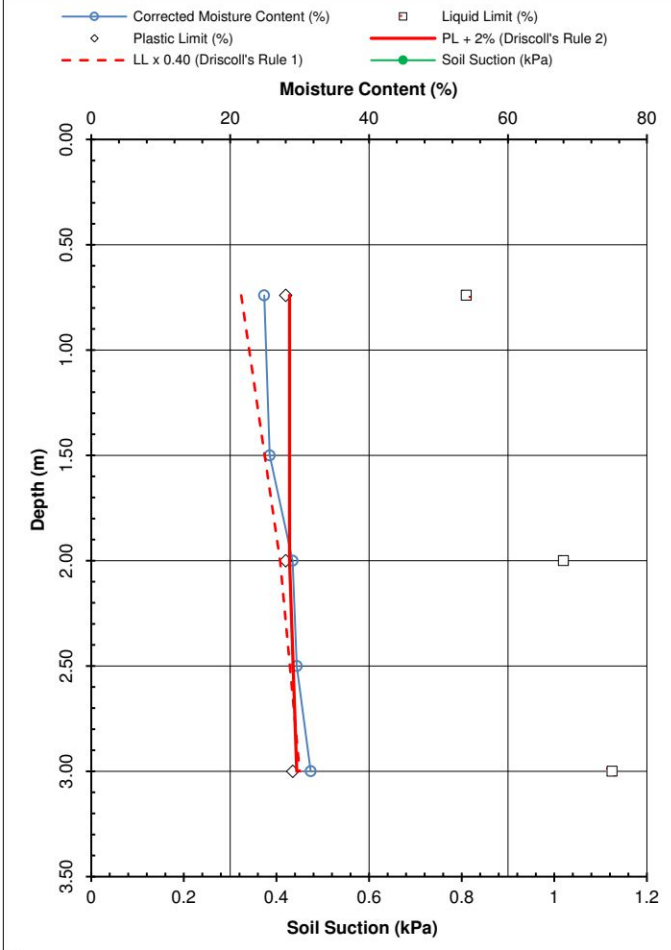
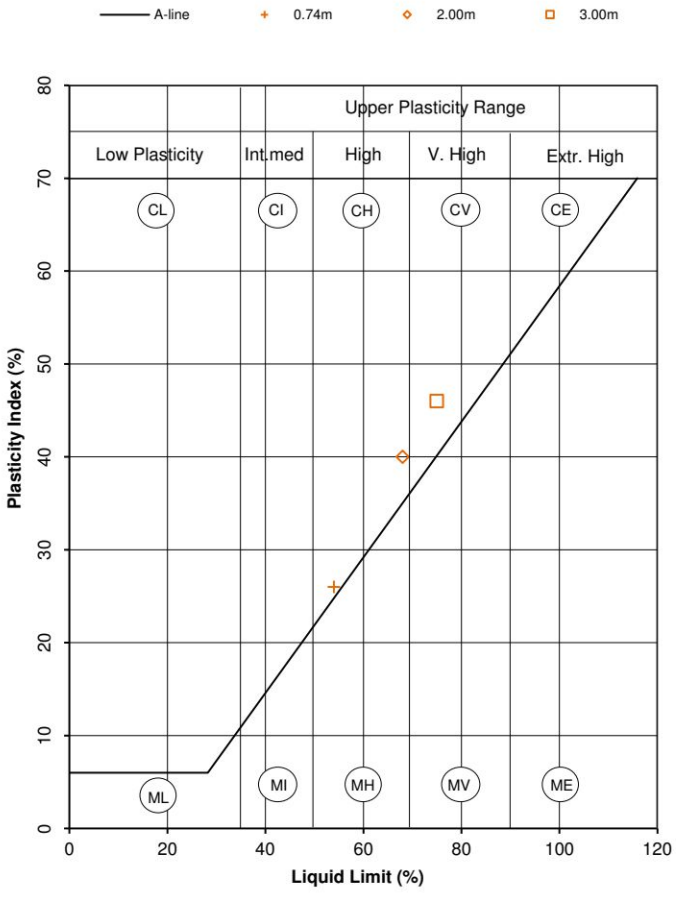
Client Claim Ref: KH21292818

BOREHOLE 1

Depth (m)	MC (%)	Corr. MC (%)	LL (%)	PL	PI (%)	Class	% Retained (425µm)	Soil Suction (kPa)	Condition of test	Soil Description
0.74	24.3	24.91	54	28	26	CH	2.44		Natural	Brown silty, sandy CLAY containing orange mottle
1.50	25.7	25.7					0		Natural	Brown silty, sandy CLAY containing orange mottle
2.00	29	29	68	28	40	CH	0		Natural	Brown silty CLAY containing grey and orange mottle
2.50	29.6	29.6					0		Natural	Brown silty CLAY containing grey and orange mottle
3.00	31.6	31.6	75	29	46	CV	0		Natural	Brown silty CLAY containing grey and orange mottle





Comments:

Issued by:

- [ ] Jade McLellan (Laboratory Manager)
- [x] Isabella Acerbis(Laboratory Supervisor)
- [ ] Ted Smith (Laboratory Technician)
- [ ]

EPSL
Independent Scientific Analysis

European Plant Science Laboratory

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ROOT IDENTIFICATION

25 Kingston Hill,

Client Reference: 25787
Report Date: 13 January 2023
Our Ref: R49925

Sub Sample	Species Identified		Root Diameter	Starch
BH1:				
FL	*Sambucus* spp.	1	1 mm	Abundant
1.5m	*Sambucus* spp.	2	1 mm	Abundant
2m	*Sambucus* spp.	3	<1 mm	Low

Comments:

1 - Plus 1 other also identified as *Sambucus* spp.
2 - Plus 2 others also identified as *Sambucus* spp.
3 - Plus 1 other also identified as *Sambucus* spp.

Sambucus spp. are elders.

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.