



Geotechnical Survey Report

FSI Ref: [REDACTED]
Issue Date: February 2023
Risk Address: 138 Haverstock Hill
London
NW3 2AY

Engineer: Bret Champion

Company: Pyle Consulting
Claim Ref: [REDACTED]

Managing Director:
Finance Director:

Martin Rush MSc FGS
Louise Banks BSc (Hons)

Geotechnical Compliance &
Logistics Supervisor:

Perry Martin MCIHT

Laboratory Manager:

Jade McLellan

Senior Geologist:
Assistant Geologist:
Geotechnical Assistant:

Scott Parker BSc (Hons) FGS
Sarah Brand
Bradley Webb



Appendix No: 1

SITE PLAN

Property Address: 138 Haverstock Hill, London, NW3 2AY

Client Claim Ref: [REDACTED]

Survey date: 14/02/2023

Operative: SE2

#136

TP/BH1

BH2

Front

Scale:
NTS

Drawn by:
BW

Key:



Manholes

Rain Water
Pipe
Soil &
Vent Pipe

Surface
Water Gully
Foul
Water Gully



Tree
(Deciduous)

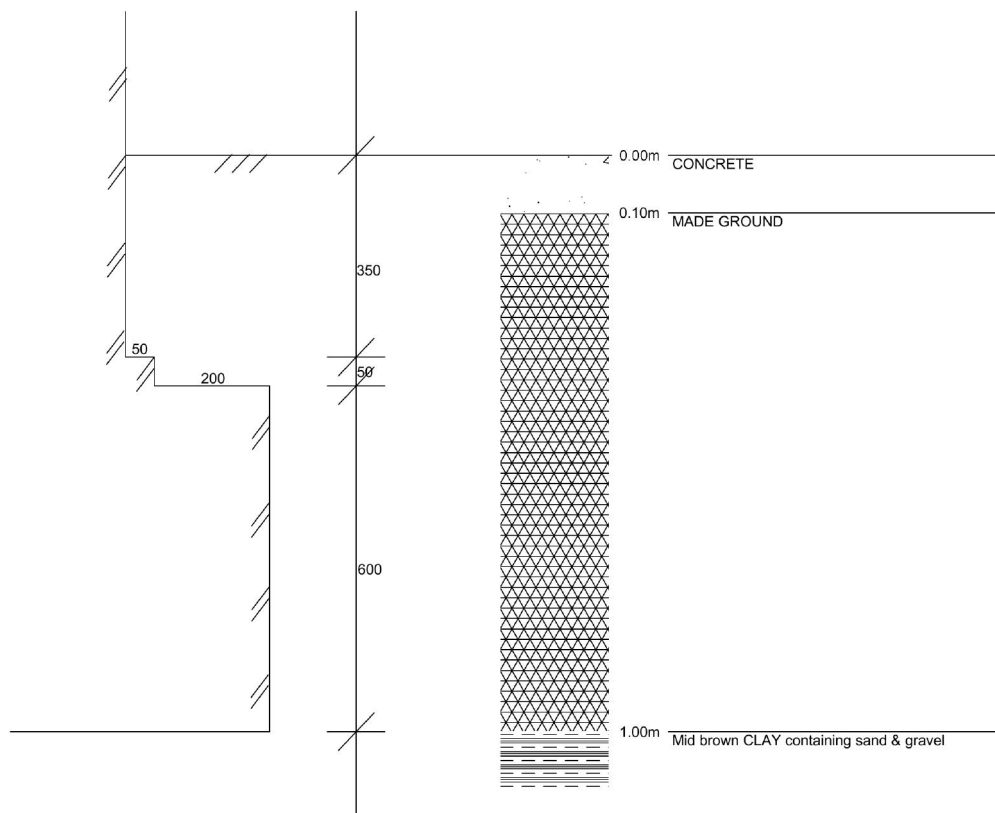
TRIAL PIT 1

Property Address: 138 Haverstock Hill, London, NW3 2AY

Client Claim Ref:

Survey date: 14/02/2023

Operative: SE2



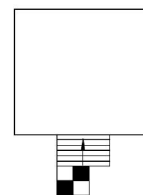
D1 @ F.L. (1.00m)

V = 78-83kPa

Founding strata: Mid brown CLAY containing sand & gravel

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:

BW

Scale:

1:10

		<div style="background-color: black; width: 100px; height: 30px;"></div>		<h1 style="text-align: center;">Borehole Log</h1>		Borehole No.		
						BH1 Sheet 1 of 1		
Project Name: <div style="background-color: black; width: 50px; height: 15px;"></div>			Project No. <div style="background-color: black; width: 50px; height: 15px;"></div>		Site Date: 14/02/2023		Hole Type BH	
Location:		138 Haverstock Hill, London, NW3 2AY				Scale 1:17		
Client:		Pyle Consulting				Logged By SE2		
Water Strikes	Sample and In Situ Testing			Depth (m)	Legend	Stratum Description		
	Depth (m)	Type	Results					
				0.10		CONCRETE		
						Clayey MADE GROUND		
						Foundation top-0.35m (brick construct projecting 50mm and 200mm with thicknesses of 50mm and 600mm respectively)		
	1.00	D	V (kPa) = 78 V (kPa) = 83	1.00		Mid brown CLAY containing sand & gravel Foundation level-1.00m	1	
	1.50	D	V (kPa) = 85 V (kPa) = 90			1-3mm roots noted at 1.50m		
	2.00	D	V (kPa) = 93 V (kPa) = 98			CLAY noted to contain only sand below 2.00m	2	
	2.50	D	V (kPa) = 102 V (kPa) = 107			CLAY noted to contain sand & gravels and grey mottles by 2.50m		
	3.00	D	V (kPa) = 100 V (kPa) = 105	3.00		End of Borehole at 3.000m	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.								
								





Appendix No: 3

LABORATORY RESULTS

Property Address: 138 Haverstock Hill, Camden, London, NW3 2AY

Client Claim Ref: [REDACTED]

Client: Pyle Consulting

SAMPLE DETAILS		ANALYSIS REQUESTED	
Investigation date:	14/02/2023	Moisture Content	<input checked="" type="checkbox"/> PSD <input type="checkbox"/>
Sample details:	Bags as received	Liquid Limit	<input checked="" type="checkbox"/> Soil Suction <input checked="" type="checkbox"/>
Samples received:	15/02/2023	Plastic Limit	<input checked="" type="checkbox"/> Shear Strength <input type="checkbox"/>
Schedule recieved:	15/02/2023	Plasticity Index	<input checked="" type="checkbox"/> Contamination <input type="checkbox"/>
Samples tested:	20/02/2023-23/02/2023	Root ID	<input checked="" type="checkbox"/> Root/Tree DNA <input type="checkbox"/>
Results reported:	23/02/2023		Roots obtained _____

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).

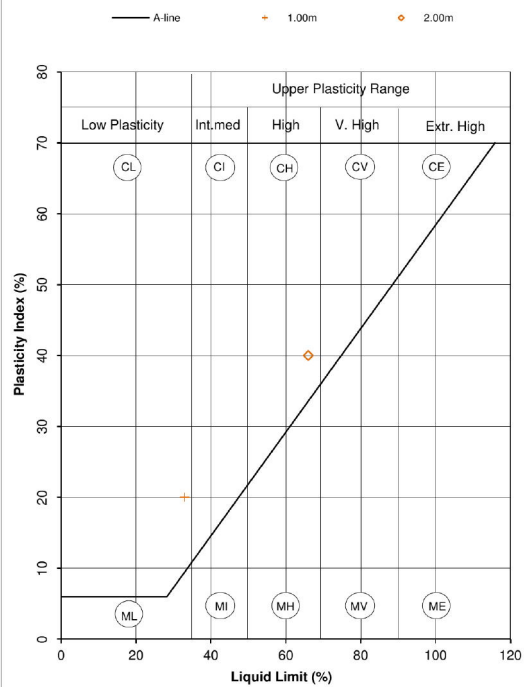
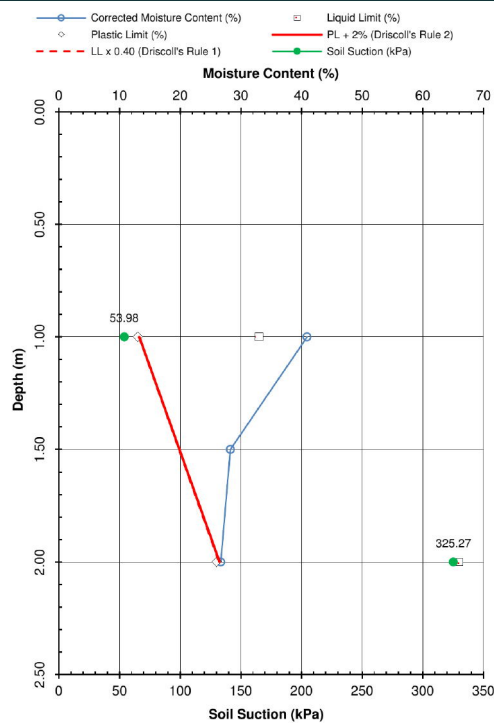
Test results on samples with a sand or silt content, may show less accurate results. Deviation to standard procedure - Polythene bags are not used from weighing filter papers.

LABORATORY RESULTS

Property Address: 138 Haverstock Hill, Camden, London, NW3 2AY

Client Claim Ref:

BOREHOLE 1

[illegible]

Comments:

Issued by: ☐ Jade McLellan (Laboratory Manager)
☒ Isabella Acerbis (Laboratory Supervisor)

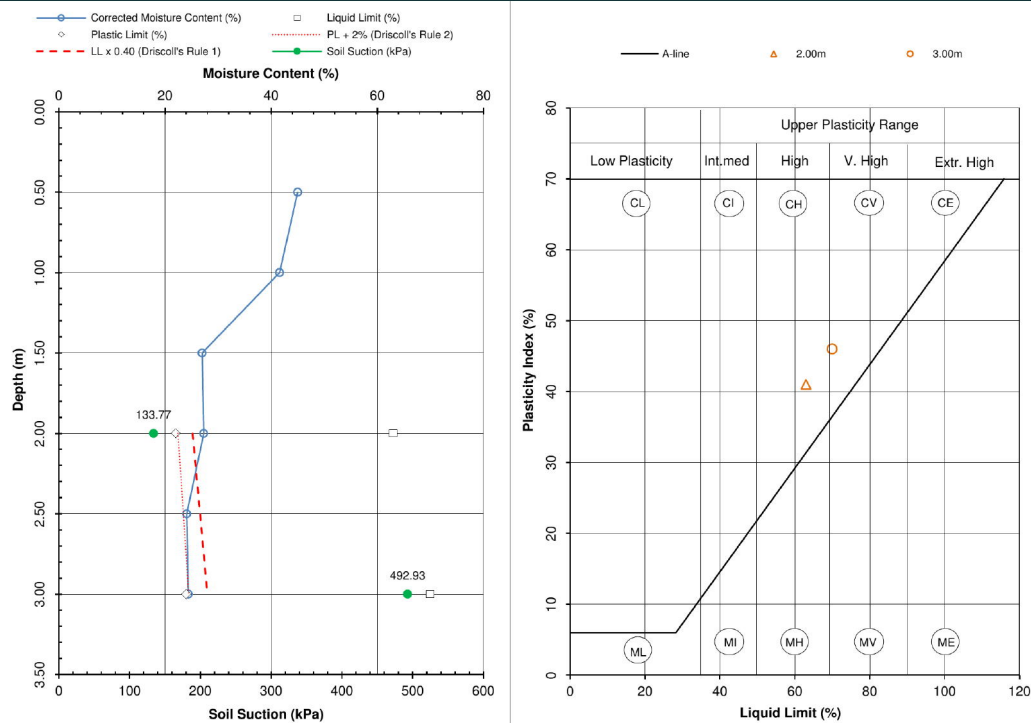
☐ Ted Smith (Laboratory Technician)

LABORATORY RESULTS

Property Address: 138 Haverstock Hill, Camden, London, NW3 2AY

Client Claim Ref:

BOREHOLE 2

[illegible]

Comments:	BH2 @ 2.00, 3.00m - Unable to perform atterberg limits and soil suctions due to incohesive soil
-----------	---

Issued by: ☐ Jade McLellan (Laboratory Manager)
☒ Isabella Acerbis (Laboratory Supervisor)

☐ Ted Smith (Laboratory Technician)

Fastrack Site Investigations Ltd

Intec

ROOT IDENTIFICATION

138 Haverstock Hill,

Client Reference: 26163
Report Date: 23 February 2023
Our Ref: R50940

Sub Sample	Species Identified	Root Diameter	Starch
BH1:			
1.5m	<i>Pittosporum</i> spp.	3 mm	Moderate
BH2:			
1m	<i>Pittosporum</i> spp.	1.5 mm	Abundant
1.5m	Leguminosae spp.	1 mm	Abundant

Comments:

Pittosporum spp. are evergreen shrubs and small trees.

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

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.