



Geotechnical Survey Report

FSI Ref: 10809
Issue Date: July 2017

Client Name: Mr & Mrs Holmes
Risk Address: Garden Flat
37 Redington Road
London
NW3 7QY

Engineer: Bret Champion

Company: Pyle Consulting
Claim Ref: 8356

Director:
Office Manager:
CAD Technician:

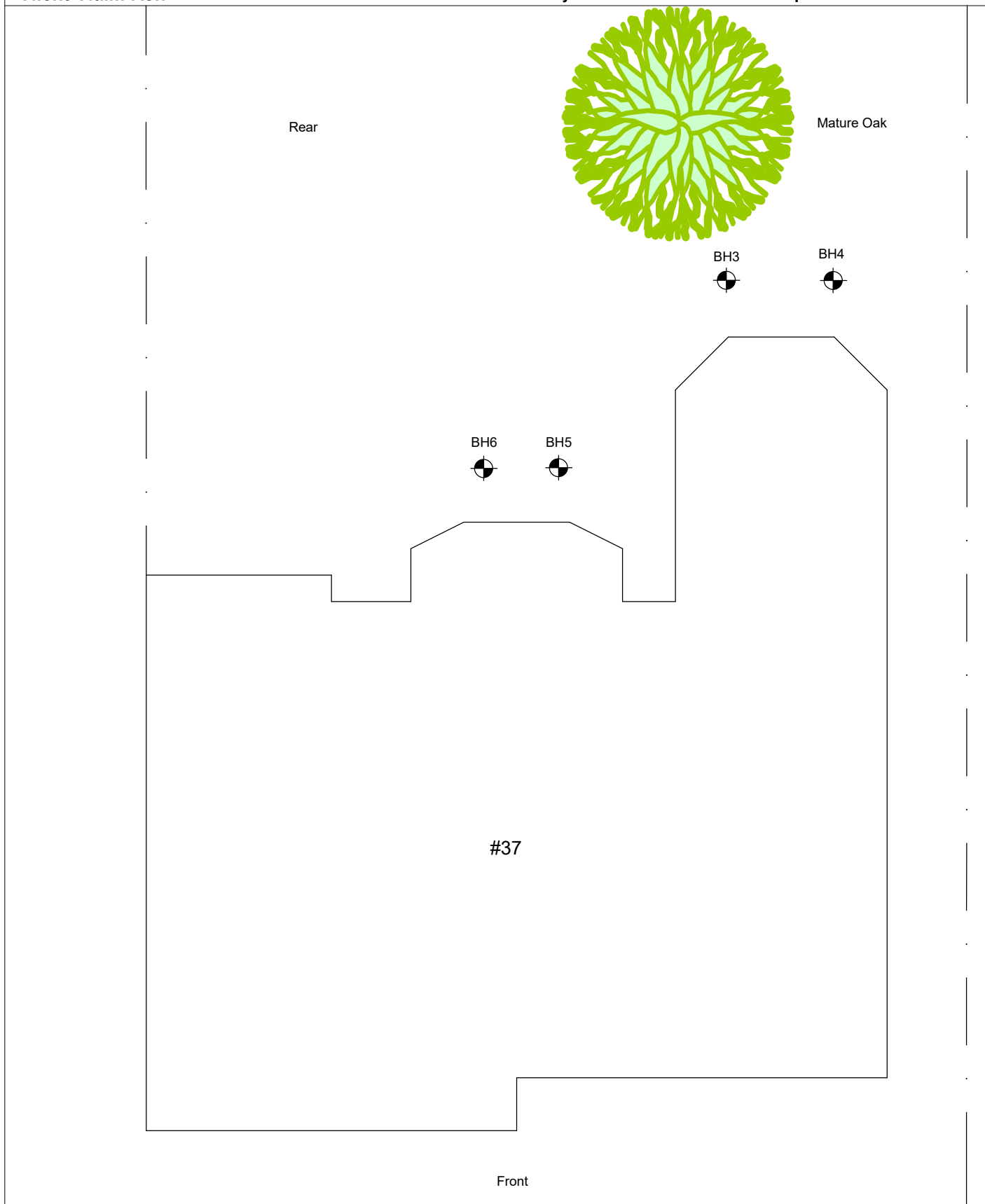
Martin Rush MSc FGS
Louise Hiscock BSc (Hons)
Perry Martin AMCIHT

SITE PLAN

Property Address: Garden Flat, 37 Redington Road, London, NW3 7QY

Client Claim Ref: 8356

Survey date: 20/06/2017

Operative: SE2

Scale:

NTS

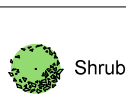
Drawn by:

SP

Key:


Manholes

Rain Water
Pipe
Soil &
Vent Pipe

Surface
Water Gully
Foul
Water Gully


Shrub

Tree
(Conifer)

Tree
(Deciduous)



Fastrack Site Investigations Ltd
Unit 9, Tyndales Farm
Southend Road
Maldon CM9 6TQ

Borehole Log

Borehole No.

BH3

Sheet 1 of 1

Project Name: 8356

Project No.
10809

Site Date: 20/06/2017




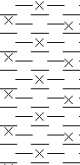







Hole Type
BH

Location: Garden Flat, 37 Redington Road, London, NW3 7QY

Scale
1:27

Client: Pyle Consulting

Logged By
SE2

Water Strikes	Sample and In Situ Testing			Depth (m)	Legend	Stratum Description	
	Depth (m)	Type	Results				
				0.10		Grass over TOPSOIL	
						Mid/ light brown silty CLAY containing minor chalk pieces	
				0.30		Mid/ light silty CLAY containing grey mottling	
	1.00	D	V (kPa) = 100 V (kPa) = 98			<u>Noted to be firm to stiff at 1.00m</u>	1
	2.00	D	V (kPa) = 92 V (kPa) = 96	1.80		Mid brown silty CLAY containing grey mottling & sand pockets	2
				2.50		Mid brown CLAY containing grey mottling & orange sand pockets	
	3.00	D	V (kPa) = 124 V (kPa) = 128	2.80		Mid brown silty slightly gravelly CLAY containing orange sand pockets	3
						<u>Noted to become stiff at 3.00m</u>	
	4.00	D	V (kPa) = 140	3.80		Mid brown silty sandy CLAY containing orange sand pockets	4
				4.70		Mid brown sandy CLAY	
	5.00	D	V (kPa) = 128 V (kPa) = 132	5.00			5

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

Remarks: Borehole was closed at 5.00m
Borehole was noted to be moist from 4.70m on completion





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Southend Road
Maldon CM9 6TQ

Borehole Log

Borehole No.

BH4

Sheet 1 of 1

Project Name: 8356

Project No.
10809

Site Date: 20/06/2017


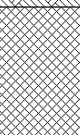




Hole Type
BH

Location: Garden Flat, 37 Redington Road, London, NW3 7QY

Scale
1:27

Client: Pyle Consulting

Logged By
SE2

Water Strikes	Sample and In Situ Testing			Depth (m)	Legend	Stratum Description	
	Depth (m)	Type	Results				
	1.00	D	V (kPa) = 112 V (kPa) = 114	0.20		Dark brown TOPSOIL	
						Mid brown silty clayey MADE GROUND containing minor brick & gravel	
				0.70		Mid brown silty CLAY containing grey mottling & minor sand pockets	
						<u>Noted to be stiff at 1.00m</u>	1
	2.00	D	V (kPa) = 100 V (kPa) = 96	1.70		Mid brown silty sandy CLAY containing grey mottling & orange sand pockets	
						<u>Noted to become firm to stiff at 2.00m</u>	2
						<u>Noted to become slightly sandy at 2.80m</u>	
	3.00	D	V (kPa) = 122 V (kPa) = 124	3.70		Mid brown sandy CLAY containing orange sand pockets & minor grey mottling	
						<u>Noted to become stiff at 3.00m</u>	3
	4.00	D	V (kPa) = 140	4.50		Dark brown/ silty sandy CLAY containing orange sand pockets	
	5.00	D	V (kPa) = 140	5.00			5

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

Remarks: Borehole was closed at 5.00m
Borehole was noted to be dry on completion





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Unit 9, Tyndales Farm
Southend Road
Maldon CM9 6TQ

Borehole Log

Borehole No.

BH5

Sheet 1 of 1

Project Name: 8356

Project No.
10809

Site Date: 20/06/2017

Hole Type
BH

Location: Garden Flat, 37 Redington Road, London, NW3 7QY

Scale
1:27

Client: Pyle Consulting

Logged By
SE2

Water Strikes	Sample and In Situ Testing			Depth (m)	Legend	Stratum Description	
	Depth (m)	Type	Results				
						Grass over TOPSOIL	
				0.35		Brown silty CLAY	
				0.60		Mid/ light brown CLAY containing grey mottling	
	1.00	D	V (kPa) = 112 V (kPa) = 116	1.40		Mid brown silty sandy CLAY containing grey mottling & minor sand pockets	1
						<i>Noted to be stiff at 1.00m</i>	
	2.00	D	V (kPa) = 124 V (kPa) = 128				2
	3.00	D	V (kPa) = 140				3
						<i>No grey mottling present at 3.40m</i>	
	4.00	D	V (kPa) = 140				4
				4.60		Brown/ greenish sandy CLAY containing sand horizons	
	5.00	D	V (kPa) = 124 V (kPa) = 128	5.00			5

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

Remarks: Borehole was closed at 5.00m
Borehole was noted to dry on completion





Fastrack Site Investigations Ltd
Unit 9, Tyndales Farm
Southend Road
Maldon CM9 6TQ

Borehole Log

Borehole No.

BH6

Sheet 1 of 1

Project Name: 8356

Project No.
10809

Site Date: 20/06/2017

Hole Type
BH

Location: Garden Flat, 37 Redington Road, London, NW3 7QY

Scale
1:27

Client: Pyle Consulting

Logged By
SE2

Water Strikes	Sample and In Situ Testing			Depth (m)	Legend	Stratum Description	
	Depth (m)	Type	Results				
				0.20		Grass over TOPSOIL	
				0.50		Dark brown silty clayey MADE GROUND containing brick & gravel	
	1.00	D	V (kPa) = 110 V (kPa) = 114			Mid brown silty CLAY containing grey mottling	1
						<i>Noted to be stiff at 1.00m</i>	
	2.00	D	V (kPa) = 128 V (kPa) = 132	1.60		Mid brown silty sandy CLAY containing grey mottling & orange sand pockets	2
	3.00	D	V (kPa) = 140				3
	4.00	D	V (kPa) = 140				4
	5.00	D	V (kPa) = 126 V (kPa) = 130	4.50		Mid brown/ green sandy CLAY containing orange sand pockets	5

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

Remarks: Borehole was closed at 5.00m, roots noted from 1.00m to 2.70m
Borehole was noted to be dry on completion





Tyndales Farm, Southend Road, Woodham Mortimer,
Maldon, Essex, CM9 6TQ

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Web: www.fastrackgroup.co.uk

Appendix No: 3
FSI Ref: 10809

LABORATORY RESULTS

Property Address: Garden Flat, 37 Redington Road, London, NW3 7QY
Client Claim Ref: 8356 **Client:** Pyle Consulting

SAMPLE DETAILS		ANALYSIS REQUESTED	
Investigation date:	20/06/2017	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:	26/06/2017	Plastic Limit	<input checked="" type="checkbox"/> Shear Strength <input type="checkbox"/>
Schedule recieved:	26/06/2017	Plasticity Index	<input checked="" type="checkbox"/> Contamination <input type="checkbox"/>
Samples tested:	26/06/2017 - 12/07/2017	Root ID	<input type="checkbox"/> Root/Tree DNA <input type="checkbox"/>
Results reported:	12/07/2017	Other (please state)	<input type="checkbox"/>

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°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 Strength

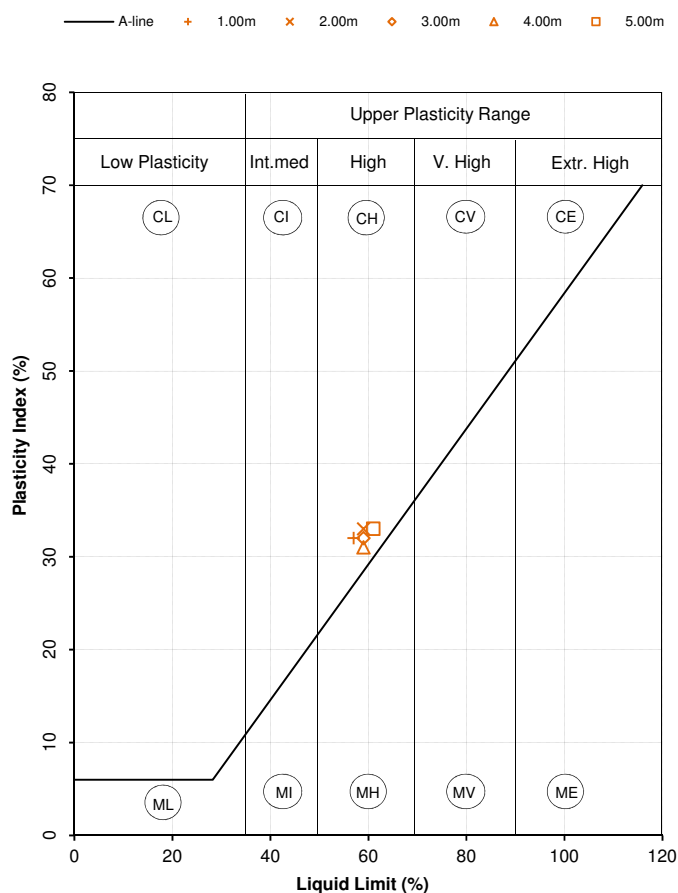
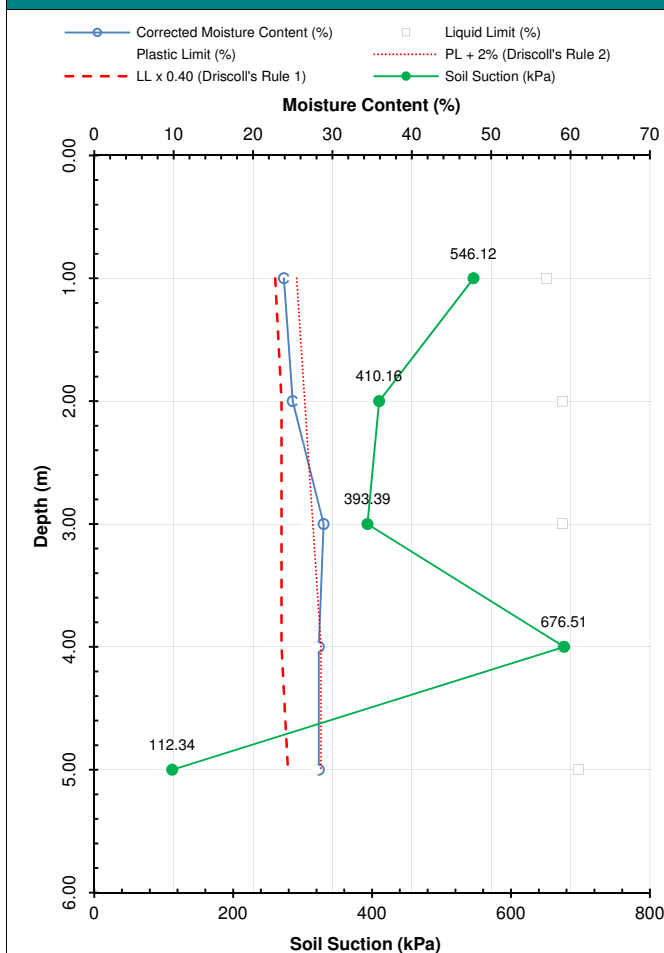
Samples were prepared in accordance with BS 1377: Part 7: 1990 section 8.3 and testing in accordance with BS 1377: Part 7: 1990: section 8.4 (undrained shear strength in triaxial compression without measurement of pore pressure (UU))

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.

8356

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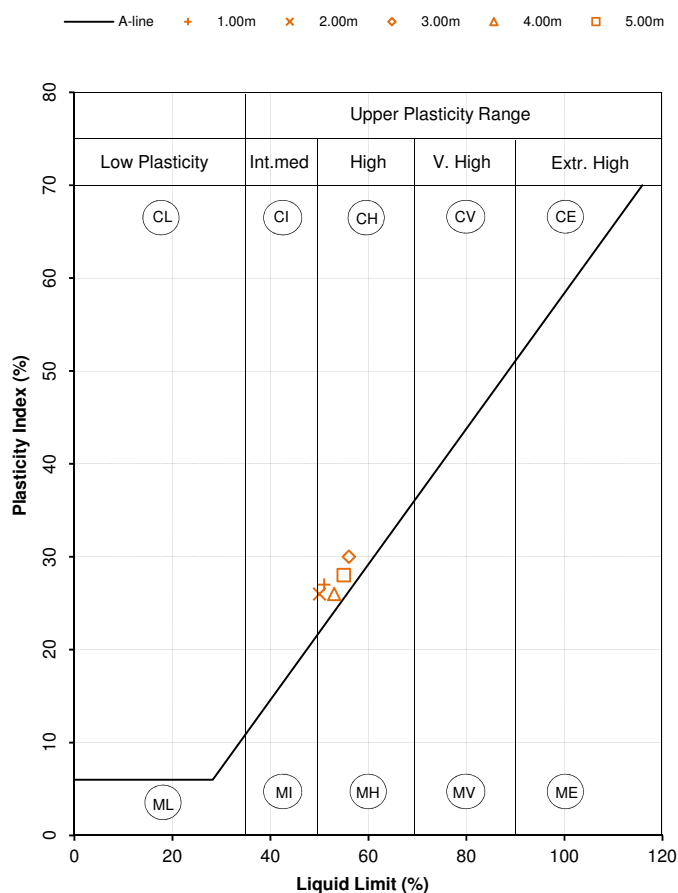
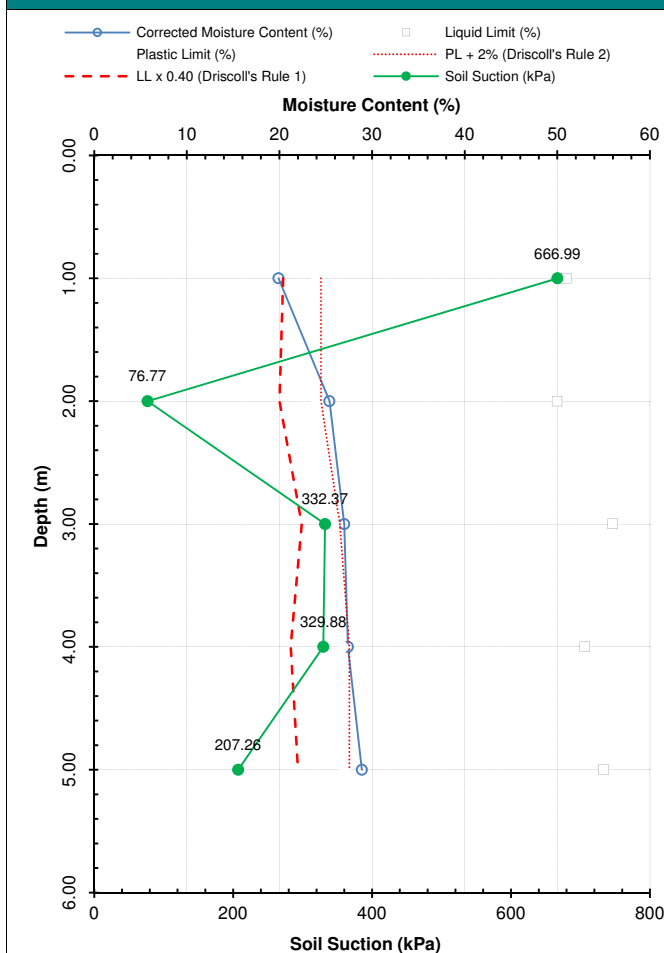
Comments:

Issued by: ☐ Jade McLellan (Laboratory Supervisor)
☒ Lindsey Appleby-Bowers (Laboratory Technician)

Signed: L Appleby-Bowers

Property Address:	Garden Flat, 37 Redington Road, London, NW3 7QY
Client Claim Ref:	

BOREHOLE 4

[illegible]

Comments:

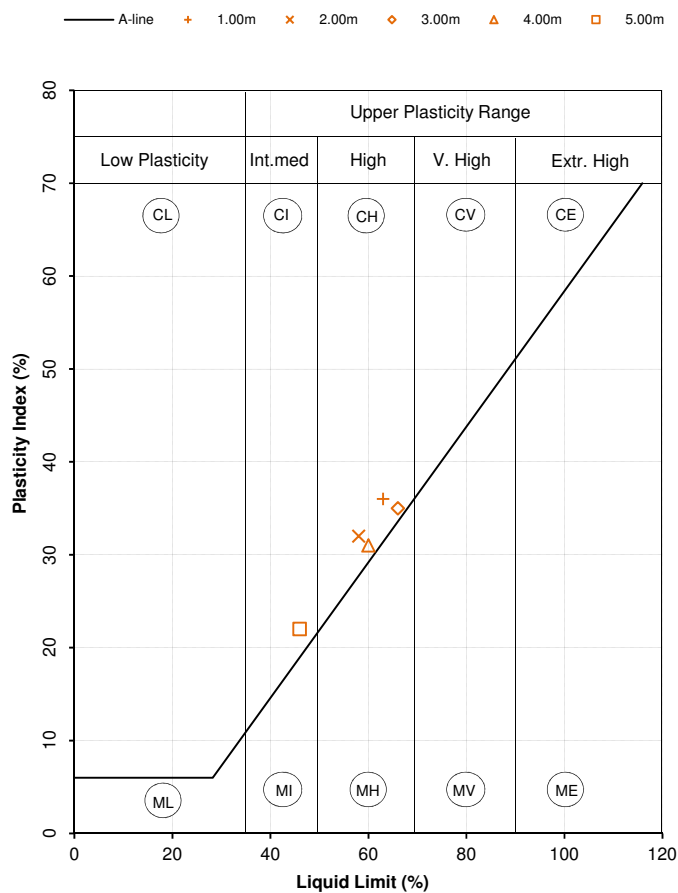
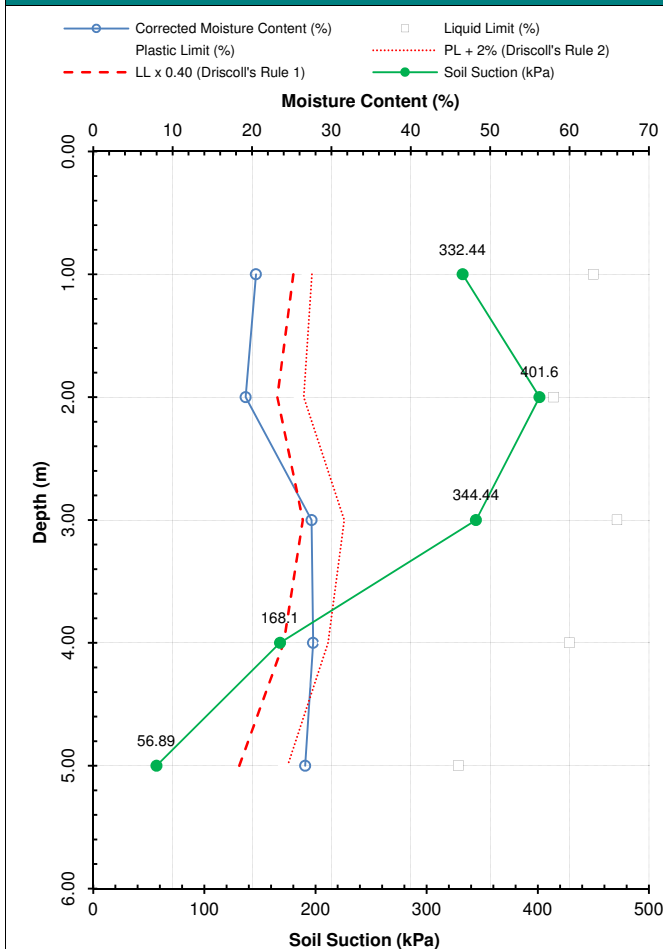
Issued by: ☐ Jade McLellan (Laboratory Supervisor)
☒ Lindsey Appleby-Bowers (Laboratory Technician)

Signed: L Appleby-Bowers

Property Address:	Garden Flat, 37 Redington Road, London, NW3 7QY
Client Claim Ref:	

8356

BOREHOLE 5

[illegible]

Comments:

Issued by: ☐ Jade McLellan (Laboratory Supervisor)
☒ Lindsey Appleby-Bowers (Laboratory Technician)

Signed: L Appleby-Bowers

