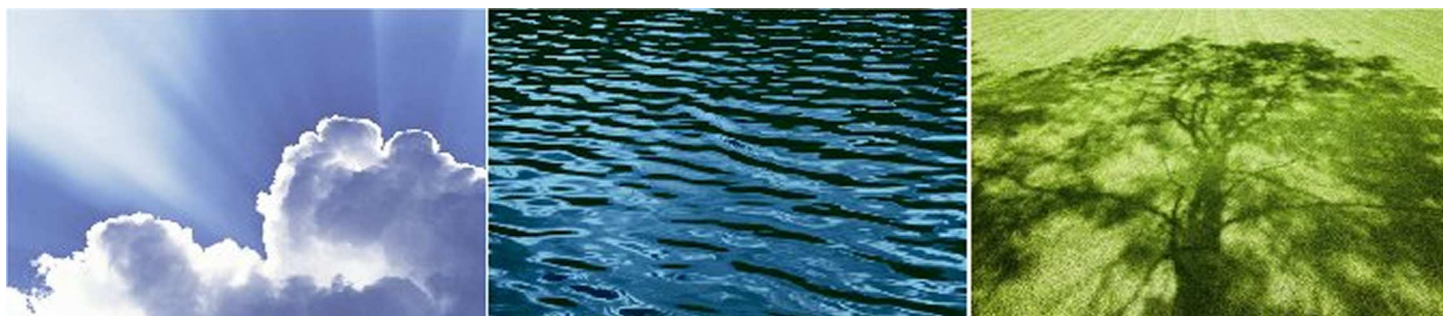


## Factual Site Investigation Report



Desk Studies | Risk Assessments | Site Investigations | Geotechnical | Contamination Investigations | Remediation Design and Validation

Site: No19 Holmdale Road, London

Client: Tribi Holding Holdings

Report Date: 3<sup>rd</sup> November 2020

Project Reference: JN1481

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## A INTRODUCTION

### 1 Authority

Our authority for carrying out this work was given by way of a completed project order form from Dimitar Stoyanov of AS Studio Ltd on behalf of the clients, dated 25<sup>th</sup> August 2020.

### 2 Location

The site is located at No19 Holmdale Road in Central London. The approximate National Grid Reference for the centre of the site is TQ 25280 85129

### 3 Background Information

The site is currently an occupied house, and development proposals are not known at this stage, but are thought to include the construction of a new basement.

### 4 Object

This is a factual ground investigation report only, with no interpretation of the data. The trial hole locations were specified by the clients representative LBHGEO.

The object of the investigation was to carry out a factual geotechnical investigation only to confirm ground conditions.

### 5 Scope

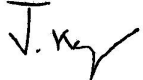

This report presents our exploratory hole log and limited geotechnical test results only. No interpretation is given.

A formal desk study, wider geotechnical and contamination assessment were outside the requested scope of works. Soil waste characterisation also did not form part of our brief for this investigation.

As with any site there may be differences in soil conditions between exploratory hole positions.

This factual ground investigation report is not an engineering design and the figures and calculations contained within should be used by the Engineer, taking note that variations will apply, according to variations in design loading, in techniques used, and in site conditions. Our figures therefore should not supersede the Engineer's design.

The site investigation was conducted and this report has been prepared for the sole internal use and reliance of Tribi Holdings Limited and their appointed Engineers. This report shall not be relied upon or transferred to any other parties without the express written authorization of Southern Testing Laboratories Limited. If an unauthorised third party comes into possession of this report they rely on it at their peril and the authors owe them no duty of care and skill.

	
J. Kelly PhD	C. Ward BSc FGS
(Countersigned)	(Signed)

For and on behalf of Southern Testing Laboratories Limited

## B SETTING

### 6 The Site

The site comprises a terraced house in West Hampstead, London. The site and surrounding area are generally flat.

### 7 Geology

The British Geological Survey Map indicates that the site geology consists of the London Clay Formation.

**London Clay** is a well-known stiff (high strength) blue-grey, fissured clay, which weathers to a brown colour near the surface. It contains thin layers of nodular calcareous mudstone - "claystone" - from place to place, and crystals of water clear calcium sulphate (selenite) are common.

## C GROUND INVESTIGATION

### 8 Investigation Method

The fieldwork was undertaken on the 16<sup>th</sup> September 2020. In general accordance with the original enquiry, the strategy for the work comprised the following:-

- 2 No. window sampler borehole using hand-held equipment to a maximum depth of 5.00m bgl (WLS 1 and 2).
- 1No. hand-dug foundation pit
- The window sampler borehole positions were started with a 1.0m deep hand-dug services inspection pit.
- Small disturbed samples were taken from the boreholes, at regular depths.

## D ENCOUNTERED GROUND CONDITIONS

The soils encountered are described in detail on the attached exploratory hole log (Appendix B).

### 9 Soils as Found

The soils encountered are summarised in the table below.

Depth	Soil Type	Description
GL-0.50/1.10m	Made Ground	Paving slabs over orange-brown sand Over Dirty brown / black silty gravelly CLAY with brick fragments
-5.00m+	CLAY	Firm to stiff orange-brown / grey mottled silty CLAY

## 10 Groundwater Strikes

Groundwater was not encountered during the site investigation, to a maximum depth of 5.00m.

## E IN-SITU FIELD TESTING

The following in-situ test and sampling methods were employed where possible. Descriptions are given in Appendix B.

- Disturbed Sampling

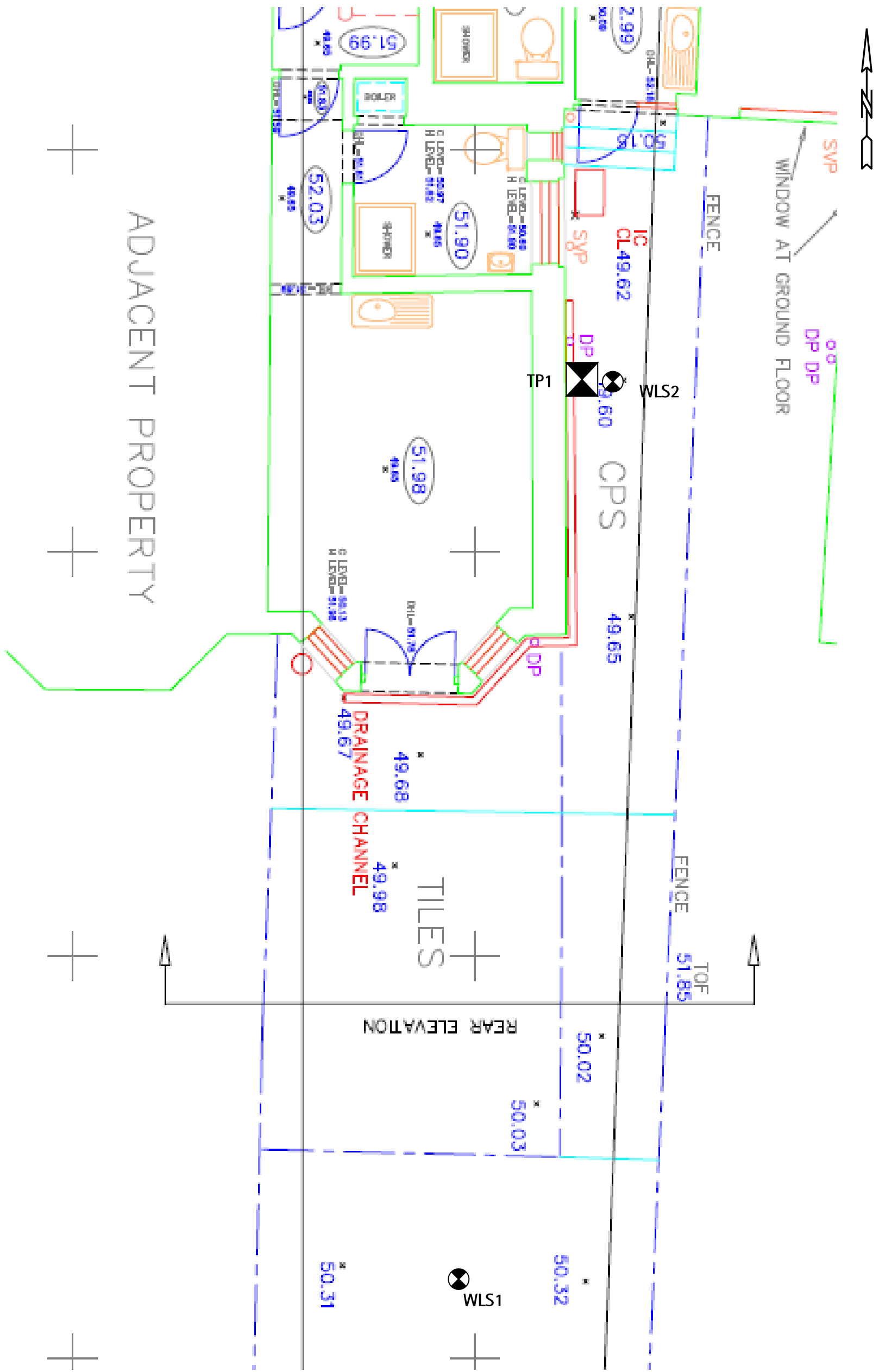
## F GEOTECHNICAL LABORATORY TESTS



The following tests were carried out on selected samples, as specified by the client's representative LBHGEO. Test method references and results are given in Appendix C. The laboratory testing was completed by our internal laboratory.

- Moisture Content and Plasticity Index
- pH and water soluble sulphate

# APPENDIX A

Site & Fieldwork Location Plans



NB: Positions of Boreholes and/or Trial Pits are only indicative unless dimensioned		
Site: 19 Holmdale Road, London	STL: JN1481	Fig No:
Date: 17 September 2020		
<div><div> Southern Testing</div><div>Southern Testing: Keeble House, Stuart Way, East Grinstead, West Sussex RH19 4QA ST Consult: Twigden Barns, Brixworth Road, Creton, Northampton NN6 8NN</div></div> <div><div> ST Consult</div></div>		

# APPENDIX B




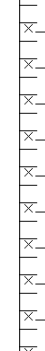
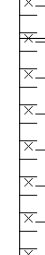
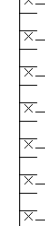

Engineers Logs



**Logger:**

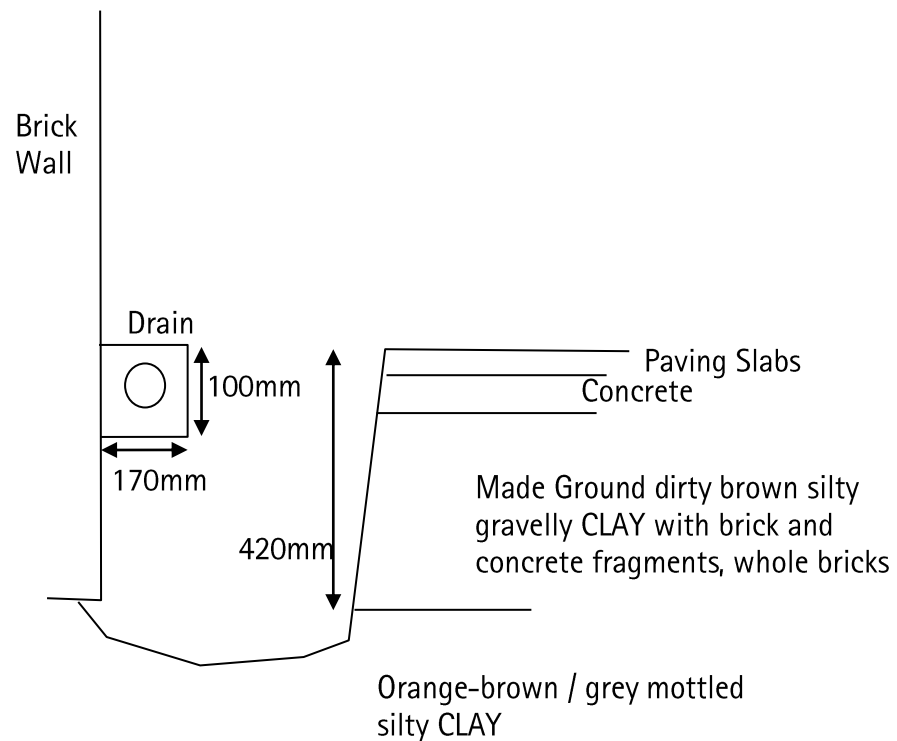
CW

<b>Client:</b>	TRIBI HOLDINGS LTD
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Well	Water Strikes	Samples and Insitu Testing			Level (m AOD)	Thickness (m)	Legend	Depth (m bgl)	Stratum Description	
		Depth (m bgl)	Type	Results						
		0.50	ES		50.1	(0.20)		0.20	Paving slabs over orange-brown sand	1
						(0.90)			MADE GROUND consisting dirty brown / black silty gravelly CLAY with brick fragments	
		1.20	D		49.2			1.10	Firm/ stiff orange-brown / grey mottled silty CLAY	2
		2.40	D			(2.40)				
		3.50	D		46.8			3.50	Stiff orange-brown / grey mottled silty CLAY	4
		4.60	D			(1.50)				
					45.3			5.00	End of Borehole at 5.00m	

[illegible]





49.60 mOD

Site: 19 Holmdale Road, London

STL: JN1481

Fig No:

Date: 16<sup>th</sup> September 2020

Hand dug foundation exposure. TP1



Southern Testing: Keeble House, Stuart Way, East Grinstead, West Sussex RH19 4QA  
ST Consult: Twigden Barns, Brixworth Road, Creton, Northampton NN6 8LU



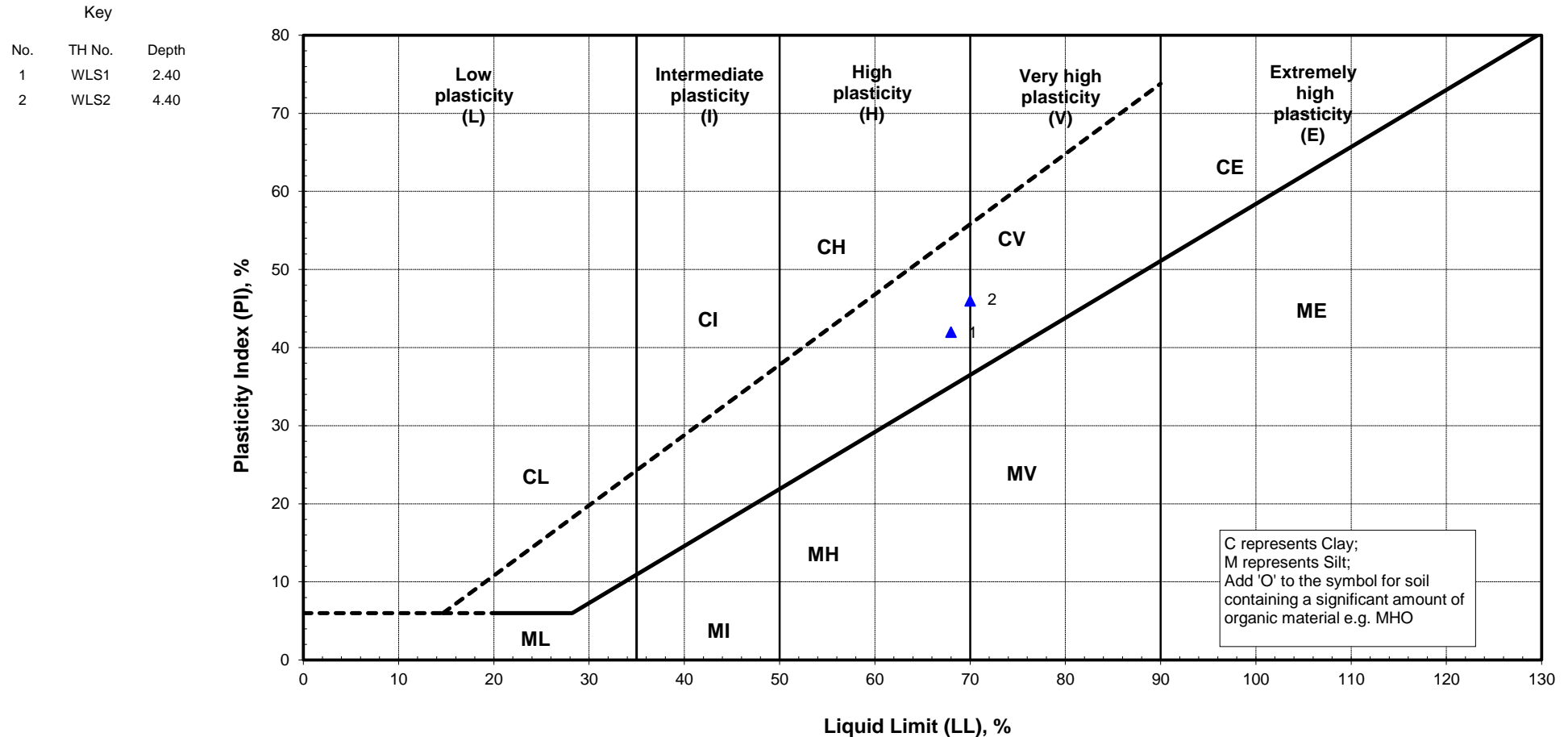
# APPENDIX C

## Geotechnical Test Results

# Plasticity Chart for Atterberg Limit Tests



<b>Project Name</b>	19 Holmdale Road, Camden			<b>Project Number</b>	JN1481
<b>Client Name</b>	LBH Wembley Engineering	<b>PE</b>	CW	<b>Date Issued</b>	01-Oct-20

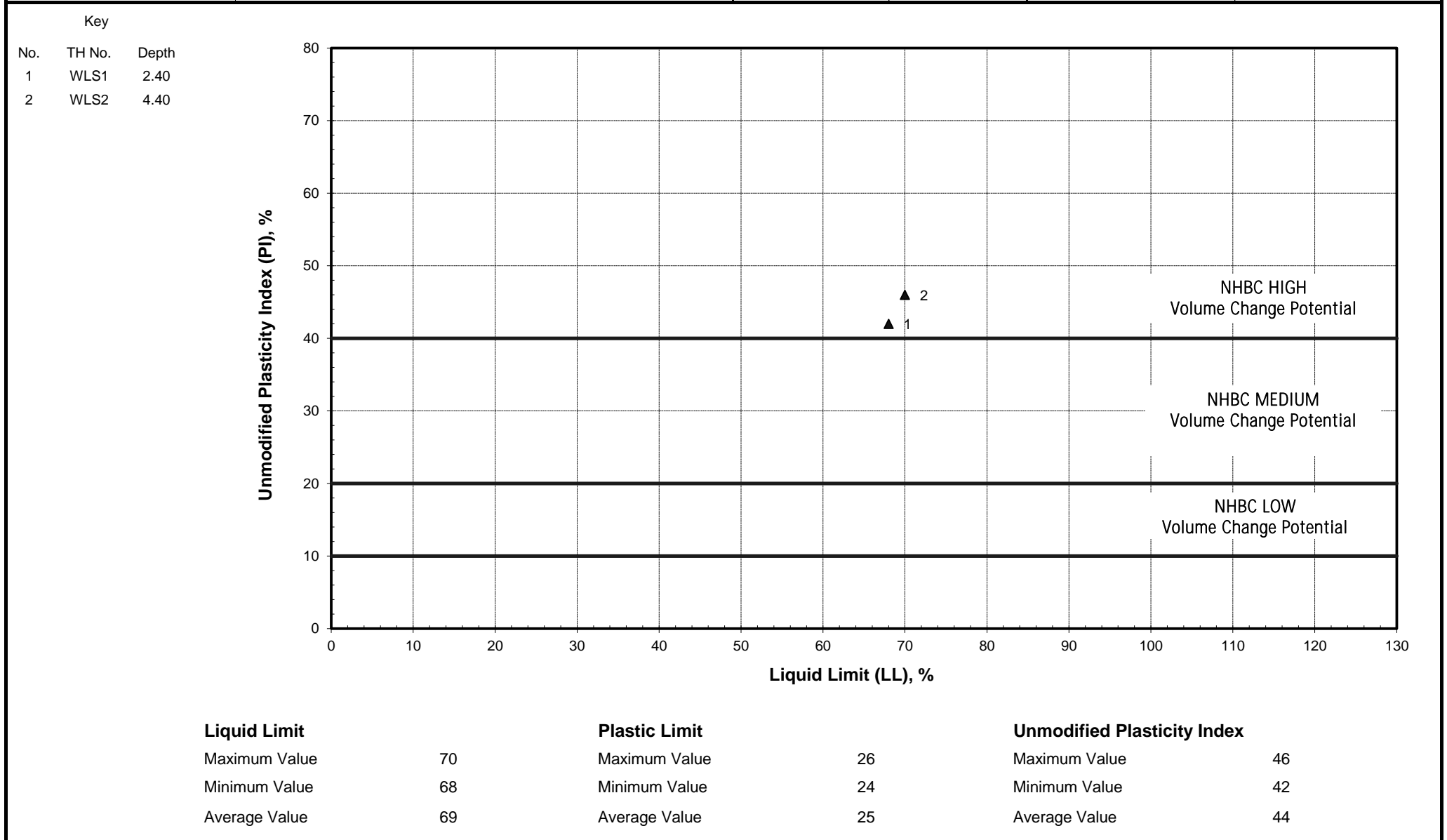


Liquid Limit		Plastic Limit		Plasticity Index	
Maximum Value	70	Maximum Value	26	Maximum Value	46
Minimum Value	68	Minimum Value	24	Minimum Value	42
Average Value	69	Average Value	25	Average Value	44

# NHBC Classification for Volume Change Potential



<b>Project Name</b>	19 Holmdale Road, Camden			<b>Project Number</b>	JN1481
<b>Client Name</b>	LBH Wembley Engineering	<b>PE</b>	CW	<b>Date Issued</b>	01-Oct-20



## Atterberg and Moisture Content Summary

BS1377-2 cl.3.2, 3.3, 4.2, 4.3 & BS EN ISO 17892-1

Project Name		19 Holmdale Road, Camden					Project Number		JN1481	
Client		LBH Wembley Engineering				PE	CW	Date Issued		01-Oct-20
Location	Depth m	Sample Type	Visual Description	Comments	Natural MC %	Liquid Limit %	Plastic Limit %	Plasticity Index	Classi- fication	Passing 425 micron %
WLS1	2.40	D	Stiff brown CLAY.		30	68	26	42	CH	100
WLS2	4.40	D	Stiff brown CLAY. With occasional selenite crystals.		29	70	24	46	CH/CV	100

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Jun 13

**CHEMICAL & ELECTROCHEMICAL TESTING SUMMARY**

To BS1377-3 cl 5.6 &amp; 9.5

Project Name		19 Holmdale Road, Camden					Project Number		JN1481	
Client		LBH Wembley Engineering				PE	CW	Date Issued		01-Oct-20
TH No.	Depth m	Sample Type	Visual Description	Comments	Passing 2mm %	pH Value	Soil Sulphate 2:1 Water Extract		Groundwater Sulphate	
							g/l SO <sub>3</sub>	BRE mg/l SO <sub>4</sub>	g/l SO <sub>3</sub>	BRE mg/l SO <sub>4</sub>
WLS1	2.40	D	Stiff brown CLAY.		100	7.6	1.93	2314		
WLS2	4.40	D	Stiff brown CLAY. With occasional selenite crystals.		100	7.7	1.50	1795		

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The samples above may have been crushed to pass a 2mm sieve. Samples dried at 50°C.

N.D. = Not Detected

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