

## Site Investigation Report

WHC reference

Job information

Client: Crawford & Company

Client reference:

Visit date: 24<sup>th</sup> October 2023

Report date: 30<sup>th</sup> November 2023

### Job Summary



#### Address: 49 & 49a Gloucester Crescent, London, NW1 7EG

### Services Utilised:



Trial Hole Actioned: Yes Number: 1



Drainage repairs Actioned: No



Borehole Actioned: Yes Number: 1



Root samples taken Actioned: Yes



Dynamic or Mackintosh probe Actioned: No Number: 0



Soil samples taken Actioned: Yes



CCTV survey Actioned: Yes



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### Plans

# TP/BH1 Key $\otimes$ Datum Point Combined Drains Foul Pipe 0 0 Dynamic Probe Foul Drains Storm Pipe 0 Trial Pit Storm Drains Foul Gulley Borehole Unsurveyed Drains Storm Gulley Trial pit/BH Property Boundary Area of Damage

### Job Information

#### Joh Overview

#### Brief

William Hunt Consulting were commissioned by Crawford & Company to undertake a site investigation within the area of concern, located at the front elevation of the property. Site Investigations to consist of 1No. Borehole together with 1No. Trial Pit alongside Moisture contents and Atterberg limit laboratory testing, Root identification and a CCTV Drainage Layout.

#### **Findings**

#### **Borehole Findings**

Borehole Findings can be found in Appendix A, where in borehole 1, Concrete was found present from ground level to 0.15m below ground level, followed by Soft to Firm Clay to a depth of 0.31mbgl. Firm dark brown Clay was then recorded to a depth of 1.31mbgl, becoming light brown at 0.81m. Below this, light brown/grey firm Clay was then encountered to a depth of 1.81m below ground level, followed by stiff to very stiff light brown Clay to 2.31mbgl. Very stiff dark brown Clay was found to be present to a depth of 3.31m below ground level, at which point the borehole was terminated. Borehole did not encounter groundwater.

#### **Root Identification**

Root Identification Results can be found in Appendix B, where in borehole 1, multiple TILIA (Lime) roots were found at depths 0.65m - 0.80m and 1.00m - 1.20m. Furthers roots were found at 0.65m - 0.80m and 1.00m - 1.20m, being identified as either the subfamily POMOIDEAE or PRUNUS.

### **Trial Pit Records**

Trial Pit Details can be found in Appendix C where in trial pit 1, no foundation or projection were found to be present, with the retaining wall extending 0.31m below ground level.

#### **Soil Sample Testing**

Laboratory Testing Results can be found in Appendix D.

#### **CCTV Drainage Layout**

CCTV Drainage Layout can be found in Appendix E.

## Photographs

## Images:

Photo 1 – Area of Works



Photo 2 – Trial Pit 1



Photo 3 – Trial Pit 1



Photo 4 - BH1 Cores (0.00m - 1.50m)



Photo 5 - BH1 Cores (1.50m - 3.00m)

Photo 6 – TP/BH1 Reinstatement



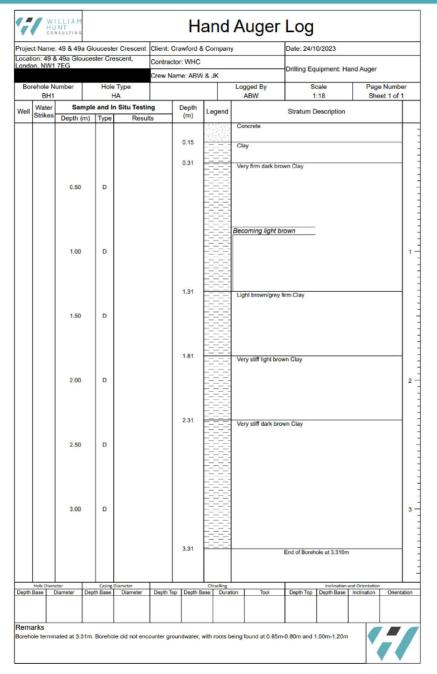


Photo 7 - Manhole 1



### **Appendices**

#### Appendix A – Borehole Logs



### Appendix B – Root Identification Results

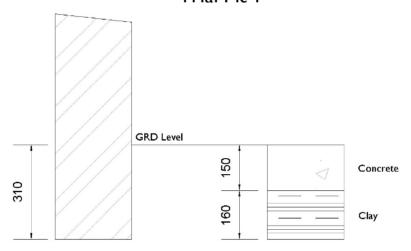
#### 49 & 49A Gloucester Crescent NW1 7EG

The samples you sent in relation to the above on 27/10/2023 have been examined. Their structures were referable as follows:

DILL OFO	200
BH1, 650-	800mm
2 no.	Examined root: TILIA (Lime). A POOR sample.
2 no.	Examined root: could be the family Rosaceae, EITHER the subfamily POMOIDEAE (a group of closely related trees: Malus (Apple), Pyrus (Pear), Crataegus (Hawthorn), Sorbus (Rowan, Whitebeam, Service tree), Mespilus (Medlar), and some shrubs (Pyracantha (Firethorn), Chaenomeles (Japonica), Cydonia (Quince), Amelanchier, Cotoneaster)) OR [the related] PRUNUS (Cherries, Plums and Damsons, Almonds, Peaches and Apricots, Blackthorn/Sloe, as well as the shrubby Cherry-laurel and Portugal-laurel). A POOR sample, with NO BARK.
4 no.	All pieces of BARK only - not enough material for identification.
4 no.	Unfortunately all with insufficient cells for identification.
BH1, 1000	0-1200mm
3 no.	Examined root: another POOR sample, without any BARK. Referable to TILIA (Lime).
3 no.	Examined root: again POOR in condition, and with NO BARK. Could be family Rosaceae, EITHER the subfamily POMOIDEAE - or - PRUNUS (see lists above).

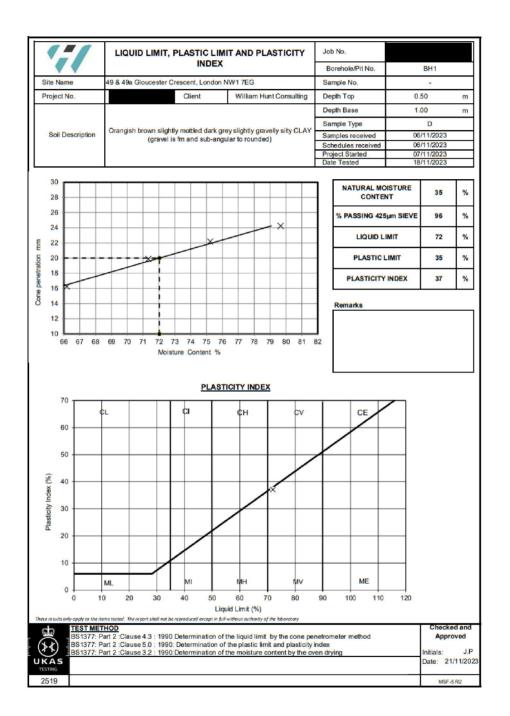
## Appendix C - Trial Pit Details

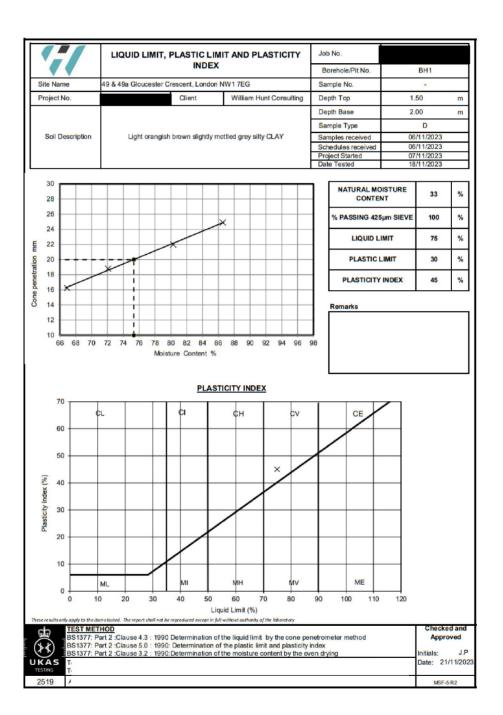
# Trial Pit I

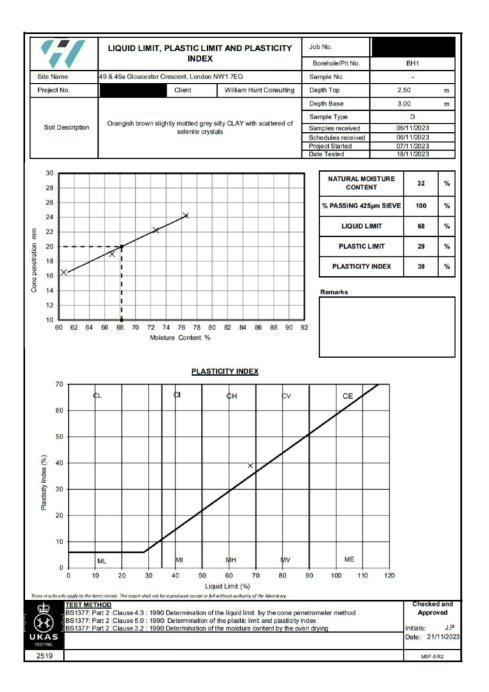


## Appendix D – Laboratory Testing Results

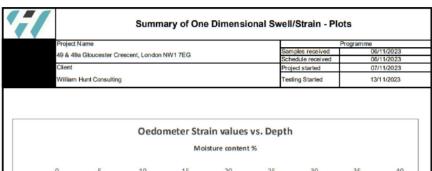
*			Project	Name							ramme
			49 & 49	a Glou	ucester Crescent, London NW1 7EG				Samples r		06/11/2023
			Client						Schedule Project sta		06/11/2023 07/11/2023
				Hunt (	Consulting				Testing St		18/11/2023
Hale No.		Sar						ш			
	Ref	Sample Top Base		Туре	Soil Description	NMC	Passing 425µm		PL	PI	Remarks
	1,00	m	m	Type		96	96	%	%	%	
BH1		0.00	0.50	D	Brown silty CLAY with rare fine gravel	31					
BH1	-	0.50	1.00	D	Orangish brown slightly mottled dark grey slightly gravelly silty CLAY (gravel is fm and sub-angular to rounded)	35	96	72	35	37	
BH1	*	1.00	1.50	D	Brownish grey mottled grey silty CLAY	Frownish grey mottled grey silty CLAY 35					
BH1	-	1.50	2.00	D	Light orangish brown slightly mottled grey silty CLAY	33	100	75	30	45	
BH1	-	2.00	2.50	D	Brownish grey mottled grey sitty CLAY with occasional pockets of brown sitt / fine sand	28					
BH1		2.50	3.00	D	Orangish brown slightly mottled grey sity CLAY with scattered of selenite crystals	32	100	68	29	39	
# ( <del>}</del> }	Natura Atterb	al Moistur erg Limit	re Content	: clau 4.3, 4.4						l	Checked and Approved Initials J.F

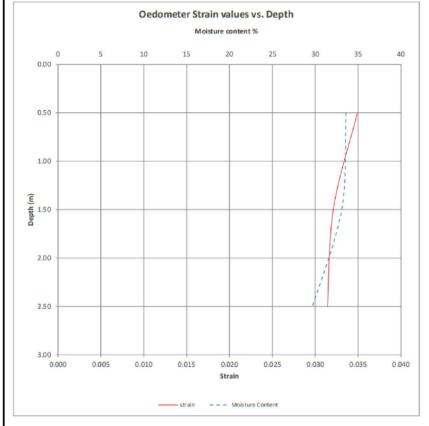






4	1			Summary of	f One-	-Dimens	ional S	well/St	rainTe	sts
	*	Dru	oject Na	lama						Programme
								Samples re		06/11/2023
		49	& 49a	Gloucester Crescent, London NW1 7EG	à			Samples re Schedule r		06/11/2023
		Clie	ent					Project sta		07/11/2023
				Hunt Consulting		- toko	t of	Testing Sta		13/11/2023
otes:	_			olential (Dd) expressed in mm and correct culated based on the difference in depth					_	
	Γ.			1						
ale No.	i 📍	Sample	a	Soil Description	Strain	Corrected	Moisture	Bulk	Dry	Remarks
ole No.	_			1.3	%	Dd	Content	Density	Density	Remarks
	Ref	Depth	Type	1	76	mm	%	Mg/m3	Mg/m3	1
BH1		0.50	D	Orangish brown slightly mottled dark grey slightly gravelly silty CLAY (gravel is fm and sub-angular to rounded)	0.035	8.63	34	1.94	1.45	
BH1	-	1.50	D	Light orangish brown slightly mottled grey sitly CLAY	0.032	15.95	33	1.96	1.47	
BH1		2.50	D	Orangish brown slightly mottled grey silty CLAY with scattered of selenite crystals	0.031	15.62	30	2.16	1.66	
_		$\sqcup$	$\sqcup$		<u> </u>					
			$\bigsqcup$							
			$\bigsqcup$							
		_	_		tal free su	rface heave of	over depth	of explorate	ory position	40.20 mm
鱼		In Hous		thod K4 001, January 2012.						Checked and Approve
UKA <b>≯</b> ⊀	ソ〗	Prepara BS1377 These re reports h	ation in 7:1990 I esults on hall not b	accordance with						Initials K.P.  Date: 21/11/2023

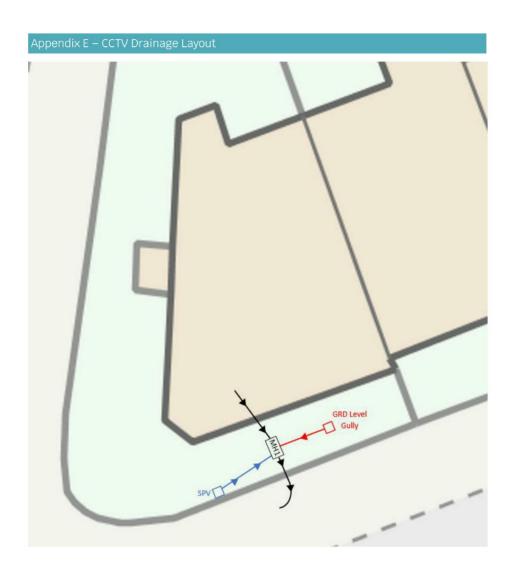




Test Method
In House Method K4 001, January 2012.
Preparation in accordance with
381377:1960 Part 5

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