



Geotechnical Survey Report

FSI Ref: 25728
Issue Date: December 2022
Risk Address: 28 Gainsborough Road
Haverhill
Suffolk
CB9 7FE

Engineer: Lance La-Band

Company: GHG
Claim Ref: L/2022/75220/S/LLB

Managing Director: Martin Rush MSc FGS
Finance Director: Louise Banks BSc (Hons)

Geotechnical Compliance & Logistics Supervisor: Perry Martin MCIHT

Laboratory Manager: Jade McLellan

Senior Geologist: Scott Parker BSc (Hons) FGS
Assistant Geologist: Sarah Brand
Geotechnical Assistant: Bradley Webb

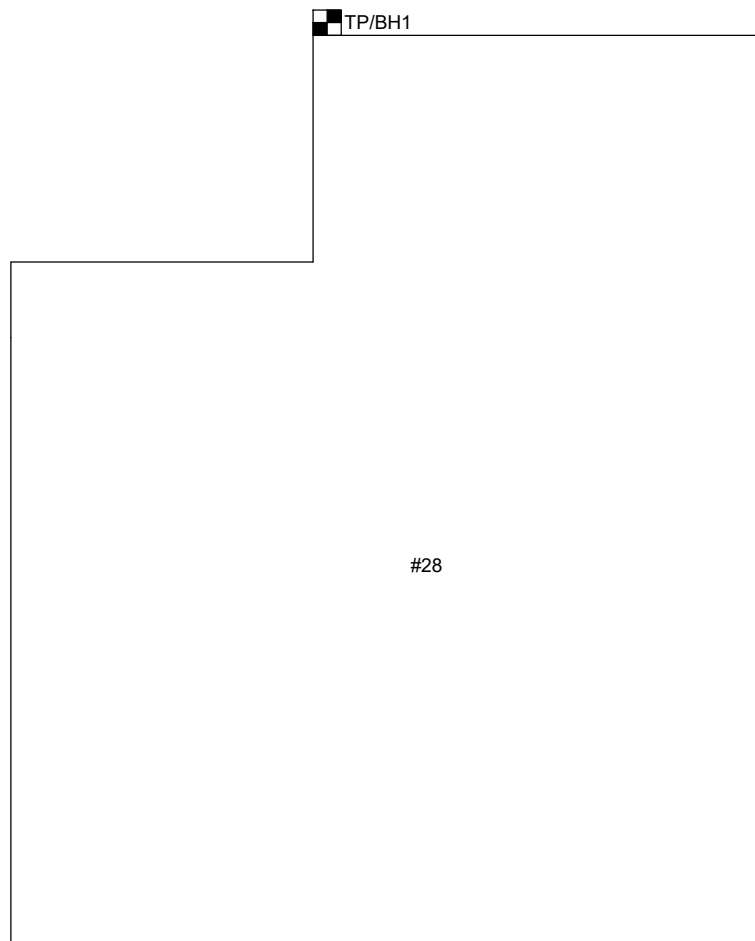
SITE PLAN

Property Address: : 28 Gainsborough Road, Haverhill, Suffolk, CB9 7FE

Client Claim Ref: L/2022/75220/S/LLB

Survey date: 20/12/2022

Operative: SE2



Front

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

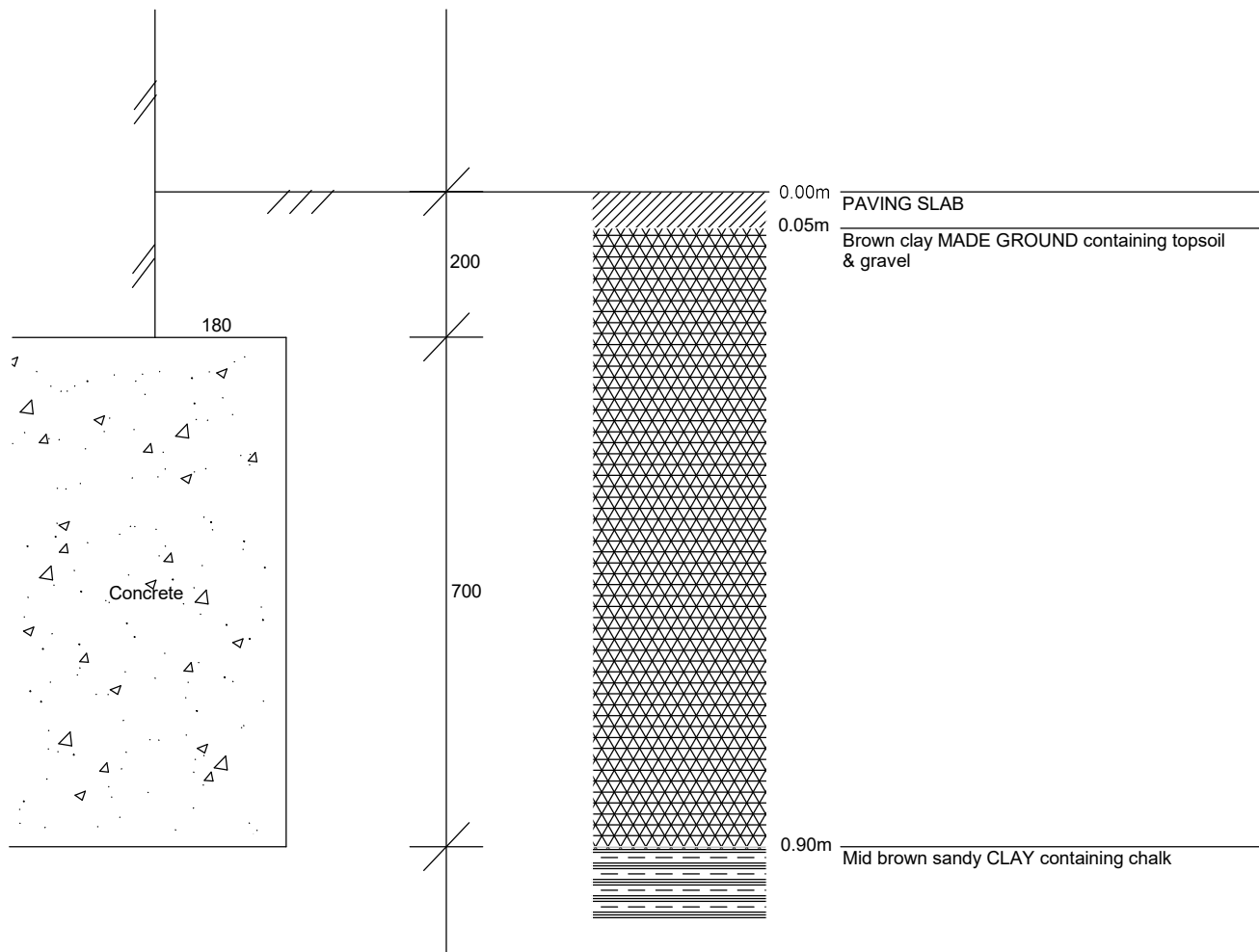
TRIAL PIT 1

Property Address: 28 Gainsborough Road, Haverhill, Suffolk, CB9 7FE

Client Claim Ref: L/2022/75220/S/LLB

Survey date: 20/12/2022















Operative: SE2



D1 @ F.L. (0.90m)
V = 105-110kPa
Founding strata: Mid brown sandy CLAY containing chalk

<p>Trial Pit Location:</p>	<p>Drawn by:</p> <p style="text-align: center;">SB</p>
<p>Scale:</p> <p style="text-align: center;">1:10</p>	

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

 		Fastrack Site Investigations Ltd Unit 9, Tyndales Farm Southend Road Maldon CM9 6TQ		<h1>Borehole Log</h1>		Borehole No. <h2>BH1</h2>	
Project Name: L/2022/75220/S/LLB				Project No. 25728		Site Date: 20/12/2022	
Location: 28 Gainsborough Road, Haverhill, Suffolk, CB9 7FE		Client: GHG		Hole Type BH		Scale 1:20	
						Logged By SE2	
Water Strikes	Sample and In Situ Testing			Depth (m)	Legend	Stratum Description	
	Depth (m)	Type	Results				
				0.05		PAVING SLAB	
						Brown clay MADE GROUND containing topsoil & gravel	
						Foundation top-0.20m (Concrete construct projects 180mm with a thickness of 700mm)	
	0.90	D	V (kPa) = 105 V (kPa) = 110	0.90		Brown sandy CLAY containing chalk	1
						Foundation level-0.90m	
						Noted to contain 1-3mm roots at 1.00m	
	1.50	D	V (kPa) = 77 V (kPa) = 81	1.50		Mid brown CLAY containing gravel & chalk	
						Noted to contain 1-3mm roots at 1.50m	
	2.00	D	V (kPa) = 140				2
						Noted to contain 1-3mm roots at 2.00m	
	2.50	D	V (kPa) = 140	2.50		Mid brown CHALK containing gravel	
	3.00	D	V (kPa) = 110 V (kPa) = 115				3
	3.50	D	V (kPa) = 113 V (kPa) = 120	3.50		End of Borehole at 3.500m	4

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

Remarks: Borehole closed at 3.50m.
Borehole noted to be dry on completion.



LABORATORY RESULTS

Property Address:	28 Gainsborough Road, Haverhill, Suffolk, CB9 7FE		
Client Claim Ref:	L/2022/75220/S/LLB/	Client:	Graham High Group

SAMPLE DETAILS	ANALYSIS REQUESTED
Investigation date: 20/12/2022	Moisture Content <input checked="" type="checkbox"/> PSD <input type="checkbox"/>
Sample details: Bags as received	Liquid Limit <input checked="" type="checkbox"/> Soil Suction <input type="checkbox"/>
Samples received: 21/12/2022	Plastic Limit <input checked="" type="checkbox"/> Shear Strength <input type="checkbox"/>
Schedule recieved: 21/12/2022	Plasticity Index <input checked="" type="checkbox"/> Contamination <input type="checkbox"/>
Samples tested: 03/01/2023-06/01/2023	Root ID <input checked="" type="checkbox"/> Root/Tree DNA <input type="checkbox"/>
Results reported: 06/01/2023	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 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.

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ROOT IDENTIFICATION

28 Gainsborough Road

Client Reference: 25728
Report Date: 5 January 2023
Our Ref: R49730

Sub Sample	Species Identified		Root Diameter	Starch
BH1:				
1m	<i>Fraxinus</i> spp.		1.5 mm	Abundant
1.5m	<i>Fraxinus</i> spp.	1	1 mm	Low
2m	broadleaved species, too juvenile for positive identification	2	<1 mm	Low

Comments:

- 1 - Rather juvenile.
- 2 - Plus 1 other the same.

Fraxinus spp. include common ash.

Signed: R. Shaw

Unless we are otherwise instructed in writing, the above sample material will normally be disposed of 6 years after the date of this report.

