

Site Investigation Report

Auger Ref:

143561.1.TSI



Job Information

Client	-
Client ref	9642110
Visit date	12/01/2023
Report date	21/01/2023

Job Summary

✓ 1 trial hole undertaken. [Read more.](#)



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Job Information

Overview

Brief

Auger were commissioned by - to undertake a site investigation within the area of concern at the property.

Findings

Photographs

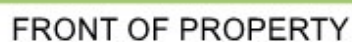
Trial Hole 1



Other Photos



Engineer's Name: M. GARNES Date: 10/10/77



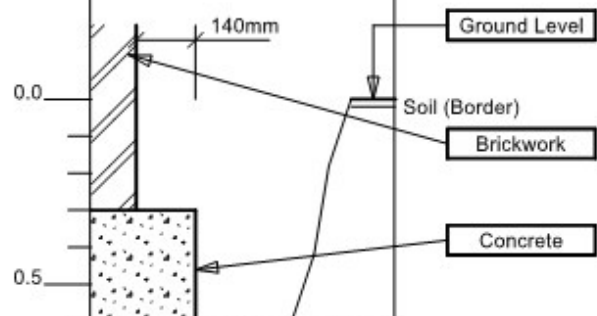
 = Shrubs / Bush
 = Hedge
 = Tree
 = Steps



Trial Hole Log No.1

Location: Rear Rh corner

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Depth (m)	Symbolic Log	Strata Description	Insitu Tests		Soil Sample	Root Sample
			SV(19)	MP (300mm)		
0.0		Ground Level				
		Soil (Border)				
		Brickwork				
0.5		Concrete				
1.0		Moist stiff Brown fine to medium gravelly silty CLAY	65kpa		Soil @ 0.6m	Root @ 0.6m
1.5			97kpa		Soil @ 1.1m	
2.0			90kpa		Soil @ 1.6m	
2.5		Wet loose Brown fine to medium gravelly silty CLAY	25blows		Soil @ 2.1m	
3.0			30blows		Soil @ 2.6m	
		TRIAL HOLE TERMINATED	38blows			



Root identification
Vegetation surveys
Tree/Building investigations
Plant taxonomy

Richardson's Botanical Identifications

Auger Solutions

Auger House

Cross Lane

WALLASEY

Wirral CH45 8RH

Dr Ian B K Richardson
BSc, MSc, PhD, MRSB, FLS
James Richardson
BSc (Hons. Biology)

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Tel: (0118) 986 9552 *(Direct line)*

E-mail: richardsons@botanical.net

Web: www.botanical.net

Your ref: **143561-1-1**

Our ref: **85/5104**

10/02/2023

Dear Sirs

Root ID

The samples you sent in relation to the above on 12/01/2023 have been examined. Their structures were referable as follows:

TH1, 0.6m		
1 no.	Examined root: QUERCUS (Oak).	Dead*.
2 no.	Examined root: a conifer - particularly like the family CUPRESSACEAE (cypresses ('macrocarpa', 'Leylandii' etc.), Thuja (Western Red Cedar), Junipers).	Dead*.

Click here for more information: [CUPRESSACEAE](#) [QUERCUS](#)

I trust this is of help. Please call us if you have any queries; our Invoice is enclosed.

Yours faithfully

Dr Ian B K Richardson

* Based mainly on the Iodine test for starch. Starch is present in some cells of a living woody root, but is more or less rapidly broken down by soil micro-organisms on death of the root, sometimes before decay is evident. This result need not reflect the state of the parent tree.

** Try out our web site on www.botanical.net **

Unit 3 & 4,
 Heol Aur,
 Dafen Ind Estate,
 Dafen
 Llanelli,
 Carmarthenshire,
 SA14 8QN

***The testing results contained within this report have been performed by GSTL a UKAS accredited laboratory on behalf of Auger.**

 Auger House,
 Cross Lane,
 Wallasey,
 Wirral,
 CH45 8RH

Summary Of Claim Details

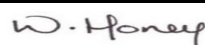
Policy Holder	
GSTL Job Reference	63862
SI Date	12/01/2023
Issue Date	12/01/2023
Report Date	31/01/2023
Auger Reference	143561.1.2.RSS
Insurance Company	
LA Claim Reference	9642110
LA Co. Reference	Unknown

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Checked and approved

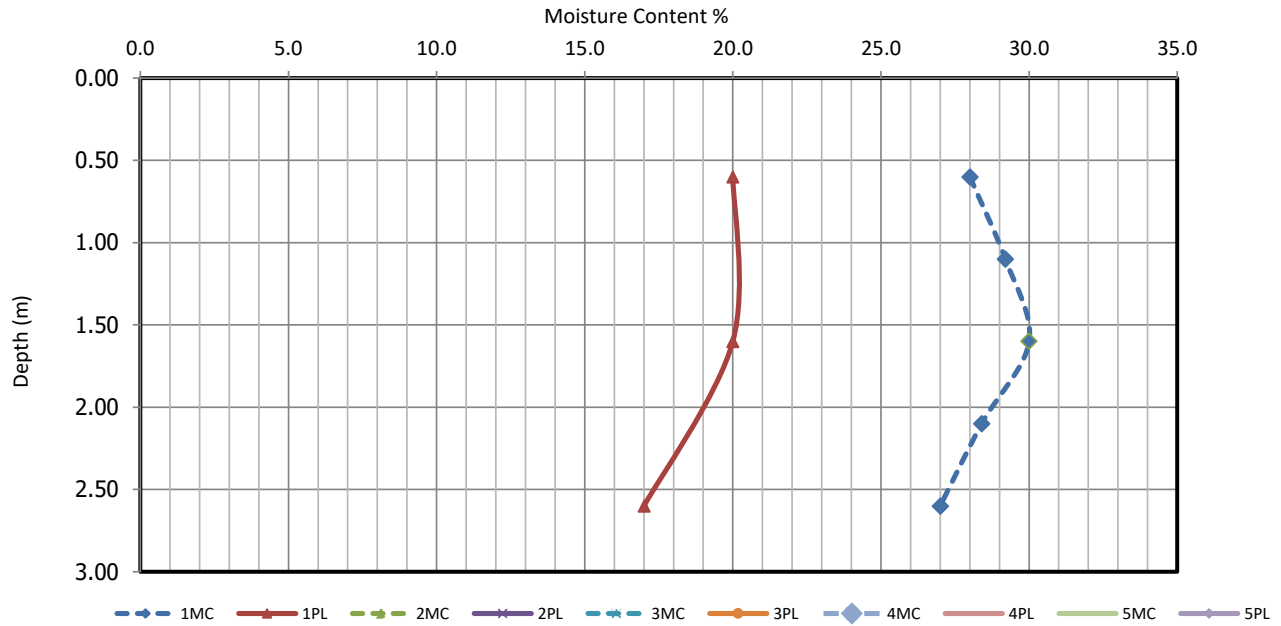
31/01/2023

Wayne Honey

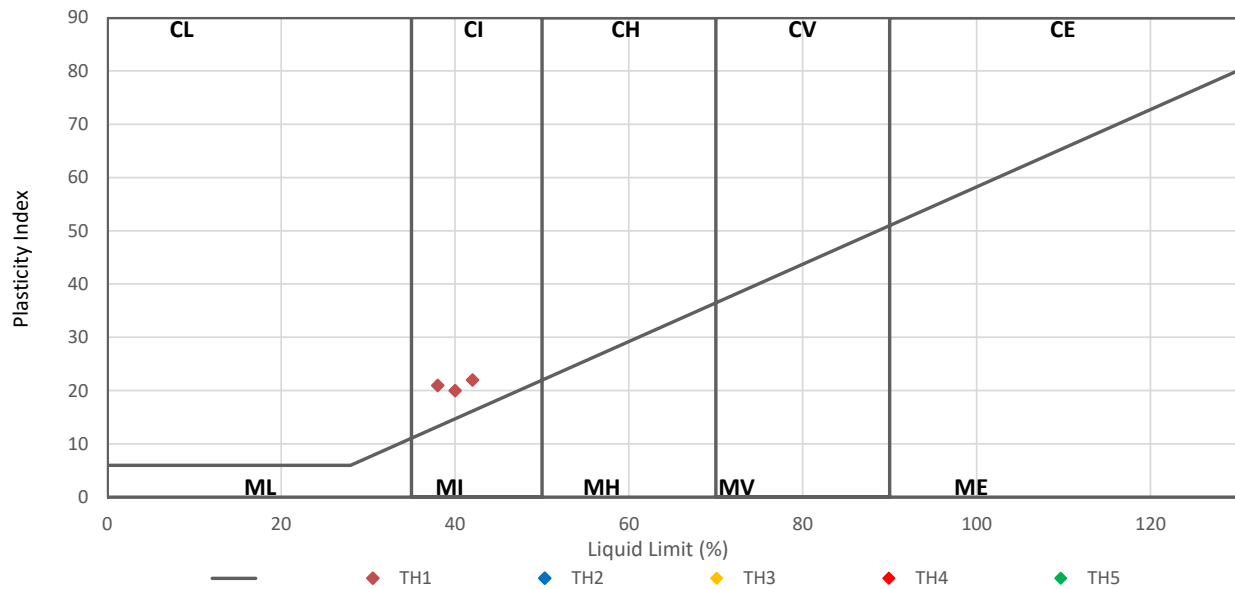




Test Operator
Jason Smith



PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION
BS 5930:1999+A2:2010



Modified Plasticity Index (PI) <10 : Non Classified
 Modified PI = 10 to <20 : Low volume change potential (LOW VCP)
 Modified PI = 20 to <40 : Medium volume change potential (Med VCP)
 Modified PI = 40 or greater : High volume change potential (HIGH VCP)

The Atterberg Limits May also be used to classify the volume change potential of fine soils using the National House building system, as given in the NHBC's Standards Chapter 4.2 (2003) "Building Near Trees"

Test Operator

Jason Smith

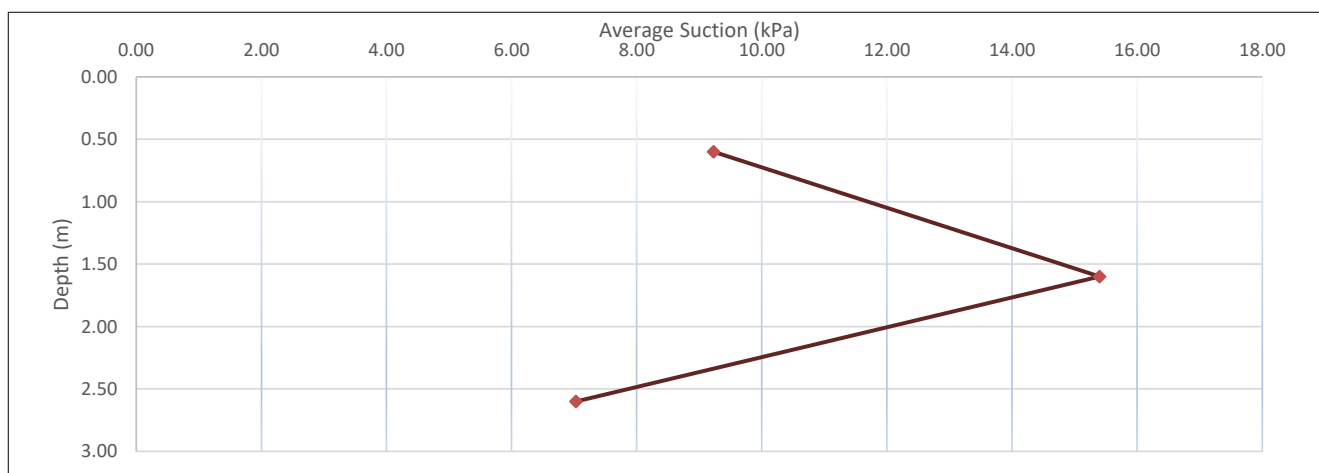
GSTL Contract Number	63862	
Report Date	31/01/2023	
Auger Reference	143561.1.2.RSS	
Remarks	D - Disturbed (Recompacted 2.5kg Rammer), U - Undisturbed Sample	

TH Trial Hole	Depth (m)	Filter Paper Location	Filter Paper	Sample Prep Method	Test Duration (Days)	Water Content (%)	Soil Suction Pk (kPa)	Average Soil Suction Pk (kPa)	Cumulative Heave Potential (mm) from bottom of the hole
TH1	0.60	Top	I	D	5	112.0	9	9	0
TH1		Middle	II	D	5	112.0	9		
TH1		Bottom	III	D	5	113.0	9		
TH1	1.10								
TH1									
TH1									
TH1	1.60	Top	I	D	5	91.2	16	15	0
TH1		Middle	II	D	5	91.4	15		
TH1		Bottom	III	D	5	91.6	15		
TH1	2.10								
TH1									
TH1									
TH1	2.60	Top	I	D	5	226.0	2	7	0
TH1		Middle	II	D	5	110.0	10		
TH1		Bottom	III	D	5	110.0	10		

Heave potential is calculated from the bottom of the hole and heaves above the bottom of the hole are reported as a cumulative value.

The values reported for heave above only apply to the strata the suction and plasticity have been performed on. The shallowest depth reported is assumed to be a strata thickness to GL and Heave is calculated based on that layer thickness, if the next sample is in 0.5m increments the heave is calculated based on the layer thickness of 0.5m and depths 1m from the sample above will include heave over 1m.

Consideration should be made for other stratas where values are not reported and when working out the heave potential over the entire trial hole.



Test Operator

Jason Smith