

Site Investigation Report

Auger Ref:

158684.1.USI



Job Information

Client	Crawford & Co
Client ref	SU2302552
Visit date	10/09/2023
Report date	17/10/2023

Job Summary

- ✓ CCTV survey undertaken. [Read more.](#)
- ✓ No drainage defects found. [Read more.](#)



Job Information

Overview

Brief

Auger were commissioned by Crawford & Co to undertake a site investigation and CCTV inspection of the underground drainage within the area of concern (AOC) at the property.

Findings

Trial Hole Findings

Trial Hole 1

Trial hole 1 was moved to the **left hand side soil bed to avoid going through the raised patio.** The trial hole reached the depth requested and the footing was discovered. A root sample was taken at 1.0m and soil samples were taken at 1.0m, 1.5m, 2m and 2.5m.

Trial Hole 2 [this trial hole was conducted on a return visit on 26/9/23]

Trial hole 2 was moved to the **right hand side of the conservatory to avoid going through the raised patio.** The trial hole reached the requested depth and the footing was discovered. A root sample was taken at 1.0m and soil samples were taken at 1.0m, 1.5m, 2.0m and 2.5m.

Drain Survey

We carried out a CCTV survey of the below ground drainage system, our findings of which are as follows:

Line 1 - From MH1 upstream to 10m

Our survey of line 1 revealed no significant defects to the pipework on this line which could be allowing an escape of water.

Line 2 - From MH1 upstream to MH2

Our survey of line 2 revealed no significant defects to the pipework on this line which could be allowing an escape of water.

Line 3 - From MH1 downstream to Property Boundary

Our survey of line 3 revealed no significant defects to the pipework on this line which could be allowing an escape of water.

Recommendations

Refer Back to Client

We will now refer the claim back to the client in order to progress the claim.

Photographs

Trial Hole 1

Fig 1.1: Trial Hole 1 Location



Fig 1.2: Trial Hole 1 Footing



Trial Hole 2

Fig 2.1: Trial Hole 2 Location



Fig 2.2: Trial Hole 2 Footing



CCTV Stills

Fig 3.1: Line 2 meets line from WG2



Site Photos

Fig 4.1: Manhole 1



Fig 4.2: Raised and concreted patio



Fig 4.3: Trial hole 1 soil samples



Fig 4.4: Trial hole 2 soil samples





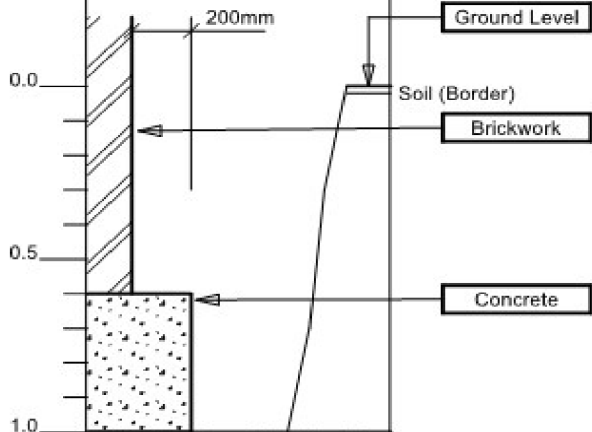
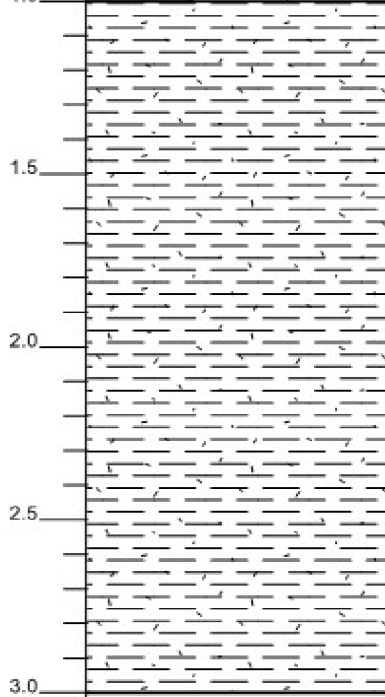
 = Shrubs / Bush
 = Hedge
 = Tree
 = Steps



Trial Hole Log No.1

Location: LHS soil bed

Job Ref:
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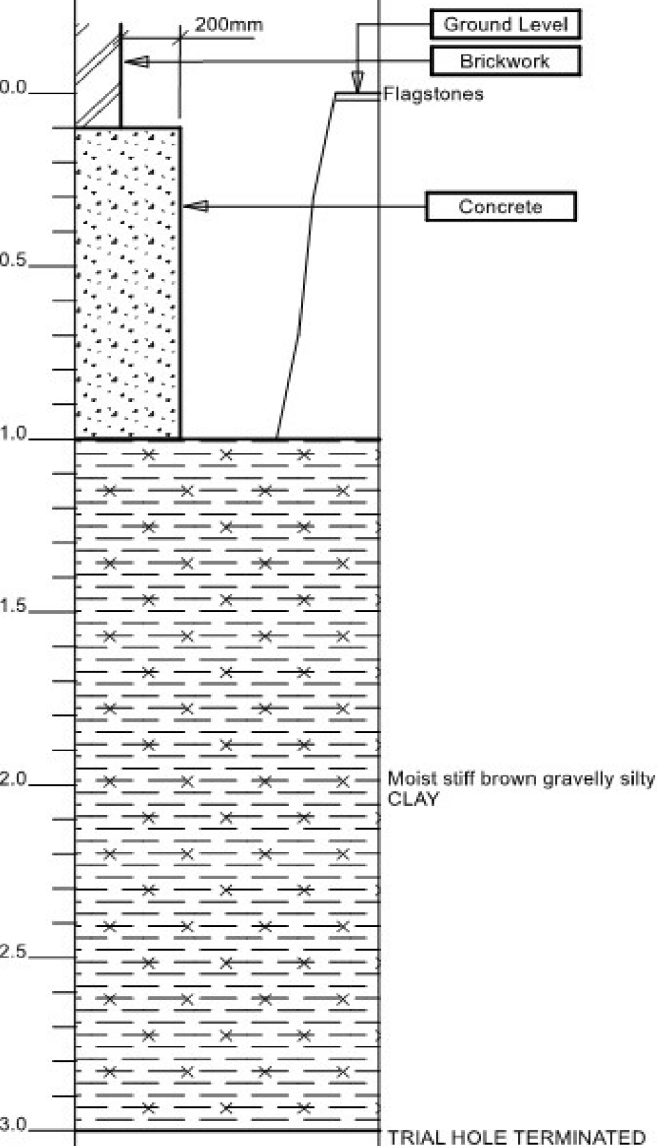
Depth (m)	Symbolic Log	Strata Description	Insitu Tests		Soil Sample	Root Sample
			SV(19)			
0.0		Ground Level				
		Soil (Border)				
		Brickwork				
0.5						
		Concrete				
1.0			76kpa		Soil @ 1m	Root @ 1m
1.5			80kpa		Soil @ 1.5m	
2.0		Dry very stiff brown fine to medium gravelly silty CLAY	82kpa		Soil @ 2m	
2.5			88kpa		Soil @ 2.5m	
3.0		TRIAL HOLE TERMINATED	88kpa			



Trial Hole Log No.2

Location: Rear rhc conservatory

Job Ref:
158684.1.4.RSI

Depth (m)	Symbolic Log	Strata Description	Insitu Tests		Soil Sample	Root Sample
			SV(19)			
0.0		Ground Level				
		Brickwork				
		Flagstones				
		Concrete				
1.0			74kpa		Soil @ 1m	Root @ 1m
1.5			78kpa		Soil @ 1.5m	
2.0		Moist stiff brown gravelly silty CLAY	80kpa		Soil @ 2m	
2.5			86kpa		Soil @ 2.5m	
3.0		TRIAL HOLE TERMINATED	86kpa			

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

68892

SI Date

26/09/2023

Issue Date

26/09/2023

Report Date

02/10/2023

Auger Reference

158684.1.5.RSS

Insurance Company

Integra Insurance Solutions

LA Claim Reference

SU2302552

LA Co. Reference

Crawford & Co

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.

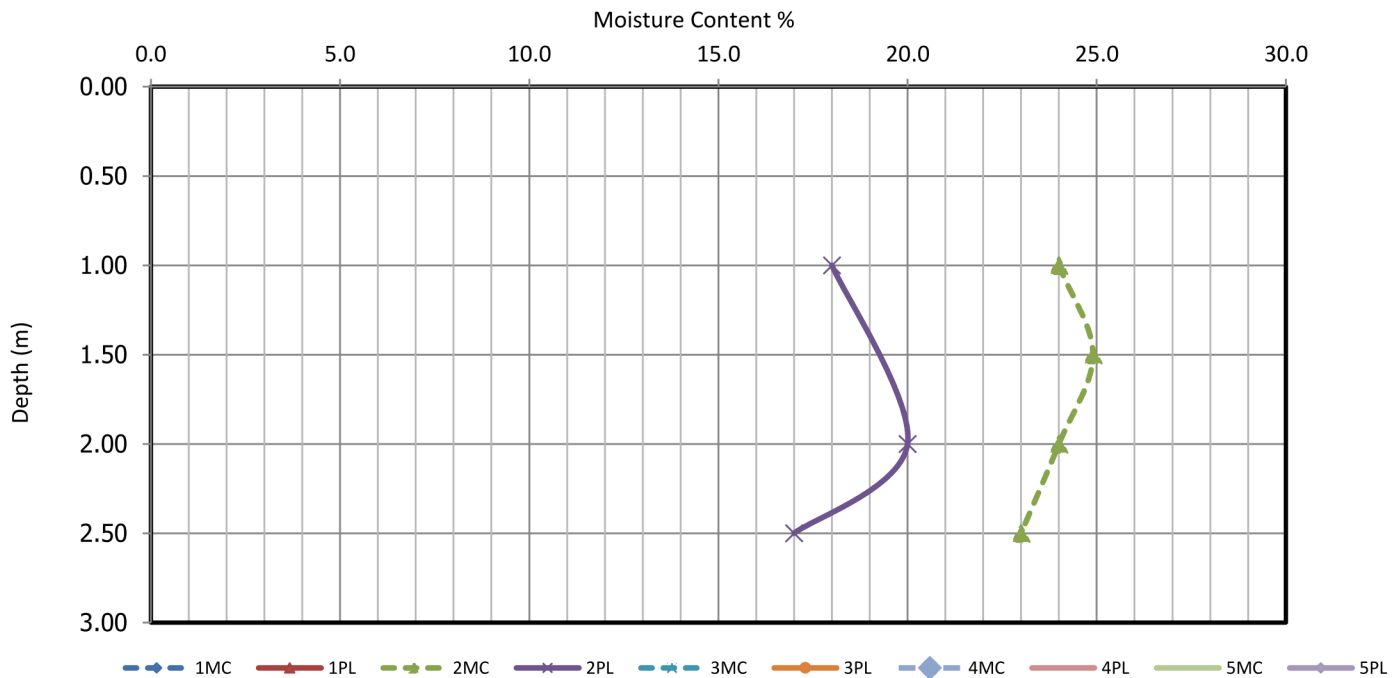
Checked and approved

02/10/2023

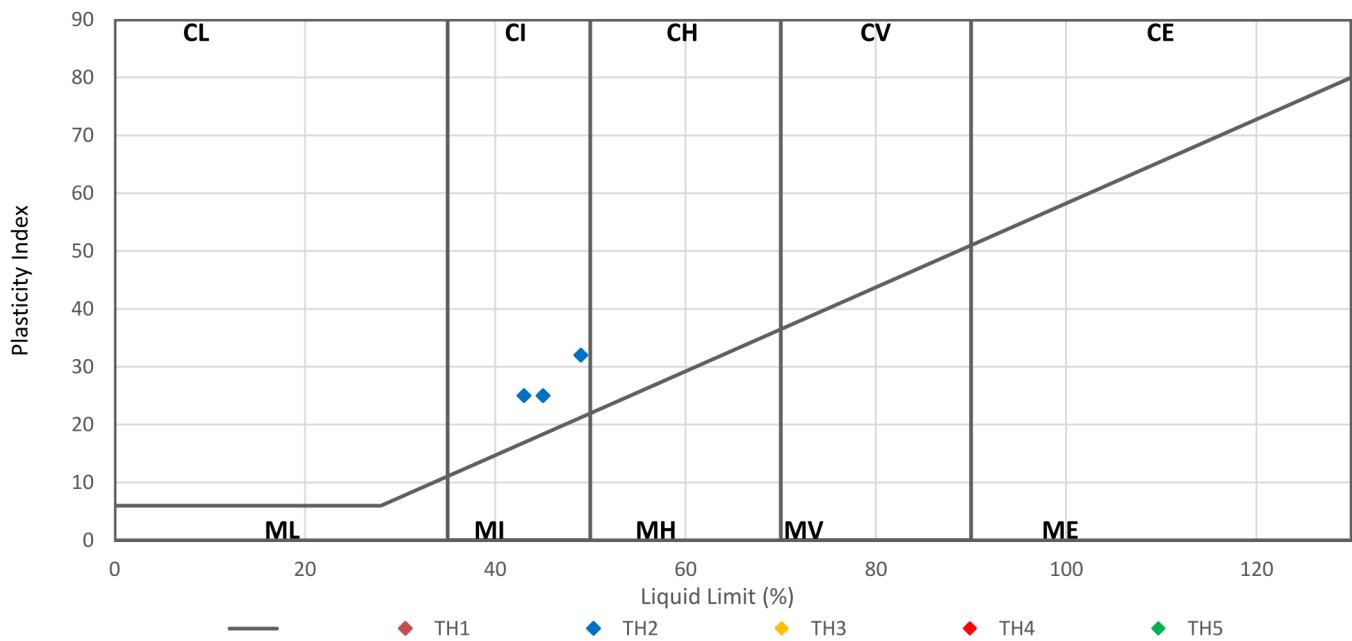
Wayne Honey



2788



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

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

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 Cross Lane,
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 Wirral,
 CH45 8RH**

Summary Of Claim Details

Policy Holder
GSTL Job Reference

68624

SI Date

07/09/2023

Issue Date

07/09/2023

Report Date

20/09/2023

Auger Reference

158684.1.3.RSS

Insurance Company

Integra Insurance Solutions

LA Claim Reference

SU2302552

LA Co. Reference

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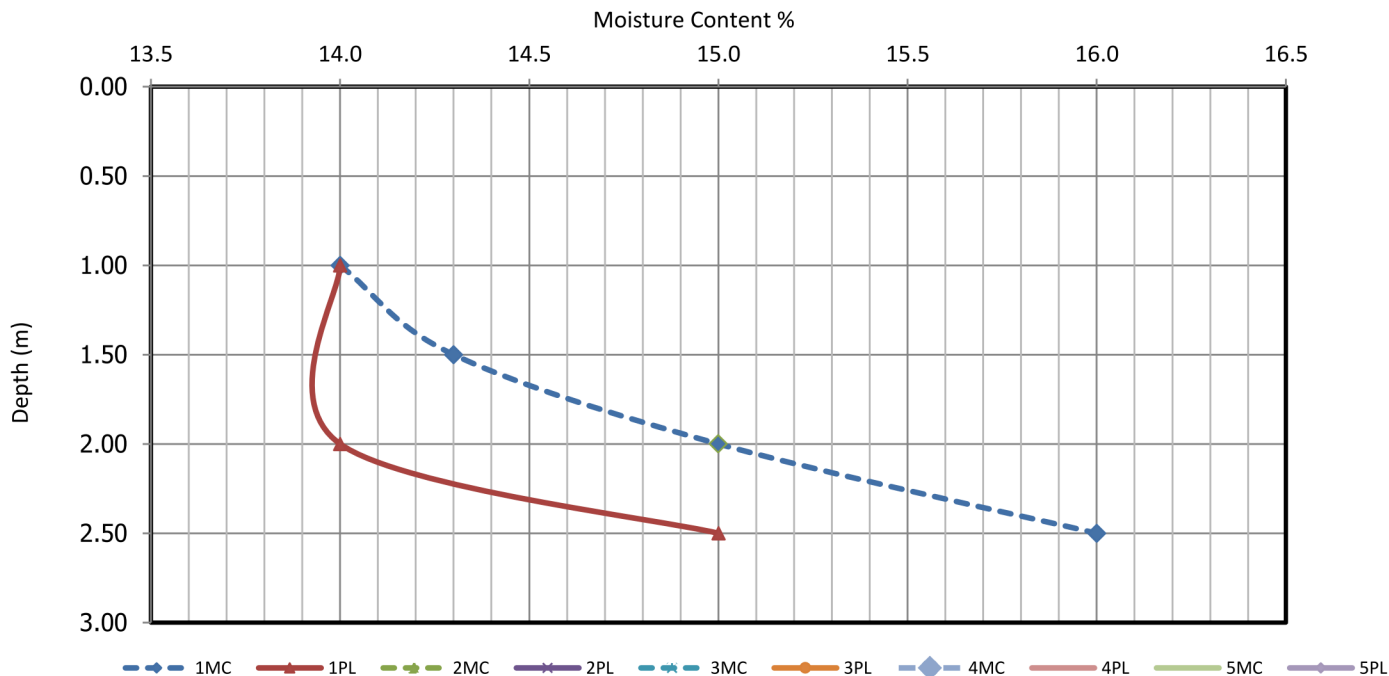
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20/09/2023

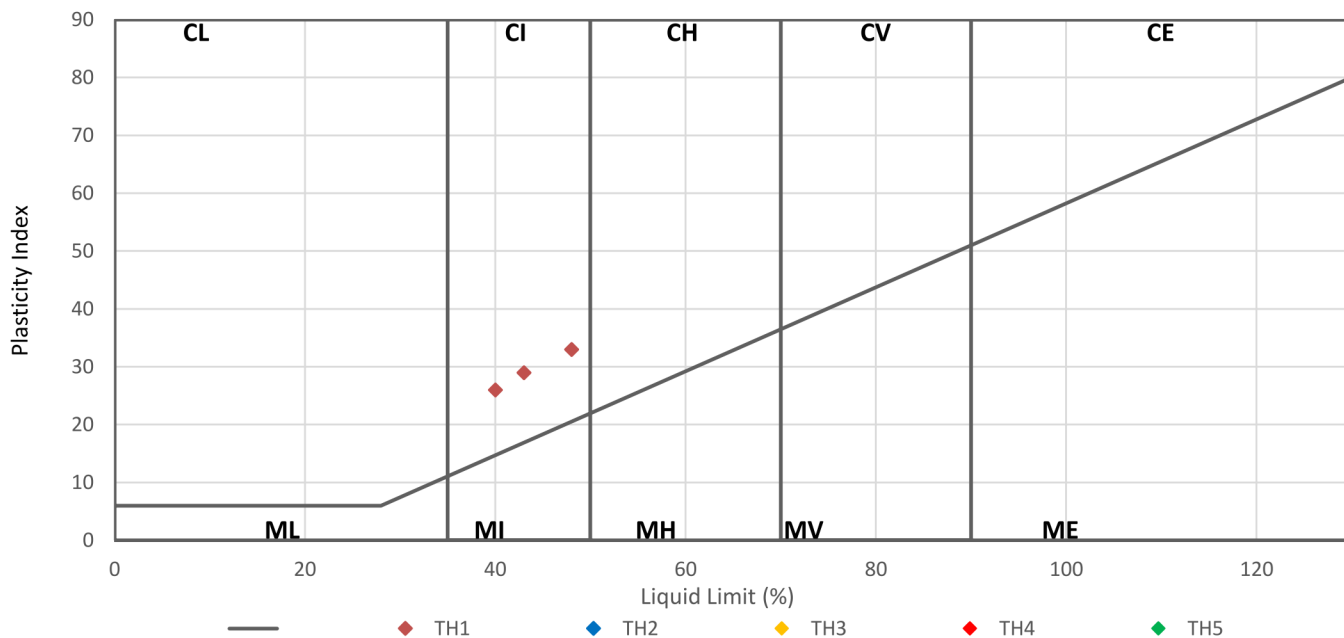
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Test Operator

Jason Smith



Richardson's Botanical Identifications

Root identification
Vegetation surveys
Tree/Building investigations
Plant taxonomy

Auger Solutions

Auger House

Cross Lane

WALLASEY

Wirral CH45 8RH

10/10/2023

Dear Sirs

Root ID

The samples you sent in relation to the above on 26/09/2023 have been examined. Their structures were referable as follows:

TH2, 1.0m		
7 no.	Examined root: PINUS (Pine).	Alive, recently* .
2 no.	Both samples revealed too few cells for microscopic identification.	

Click here for more information: [PINUS](#)

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 **



Root identification
Vegetation surveys
Tree/Building investigations
Plant taxonomy

Richardson's Botanical Identifications

Auger Solutions

Auger House

Cross Lane

WALLASEY

Wirral CH45 8RH

21/09/2023

Dear Sirs

Root ID

The samples you sent in relation to the above on 10/09/2023 have been examined. Their structures were referable as follows:

TH1, 1.0m		
4 no.	Examined root: a conifer, most like PINUS (Pine).	Alive, recently*.
1 no.	Examined root: a SHRUB, similar in many ways to BUDDLEJA (bushes, sometimes large, with spikes consisting of tiny pink, white or blue scented flowers); also like ARBUTUS (includes 'Strawberry tree' - large evergreen shrubs/small trees with tiny bell-shaped flowers and strawberry-like fruits that appear in Autumn).	Dead*.
3 no.	All pieces of BARK only - not enough material for identification.	

Click here for more information: [PINUS](#)

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