

Site Investigation Report

Auger Ref:

145038.1.USI



Job Information

Client	Crawford & Co
Client ref	SU2203656
Visit date	06/03/2023
Report date	18/04/2023

Job Summary

- ✓ CCTV survey undertaken. [Read more.](#)
- ⚠ 1 trial hole undertaken. [Read more.](#)
- ⚠ Water encountered in THI [Read more.](#)
- ✓ No drainage defects found. [Read more.](#)



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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

Within Trial hole 1 we revealed the footing but were unable to auger to the required depth (3m) in the proposed location. This was due to a solid obstruction we encountered at 1.6m below ground level, therefore we carried out a remote borehole in the grass area closest to TH1 in which we achieved a depth of 3.0m. We took soil and root samples. These measurements are shown in Trial hole log 1 below. In TH1, water was encountered at 1.6m below ground level.

Drain Survey

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

Line 1 - From RWG1 downstream to accessible manhole.

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

Please note: RWG1 was surveyed down to what is believed to be a manhole, however as shown in figure 3.1 we were unable to access the manhole. If the loss adjuster wishes for us to survey any drainage from the manhole it will require the customer to move these boxes. We will await the loss adjusters further instructions.

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 11: Trial Hole 1 Location



Fig 12: Trial Hole 1 Footing



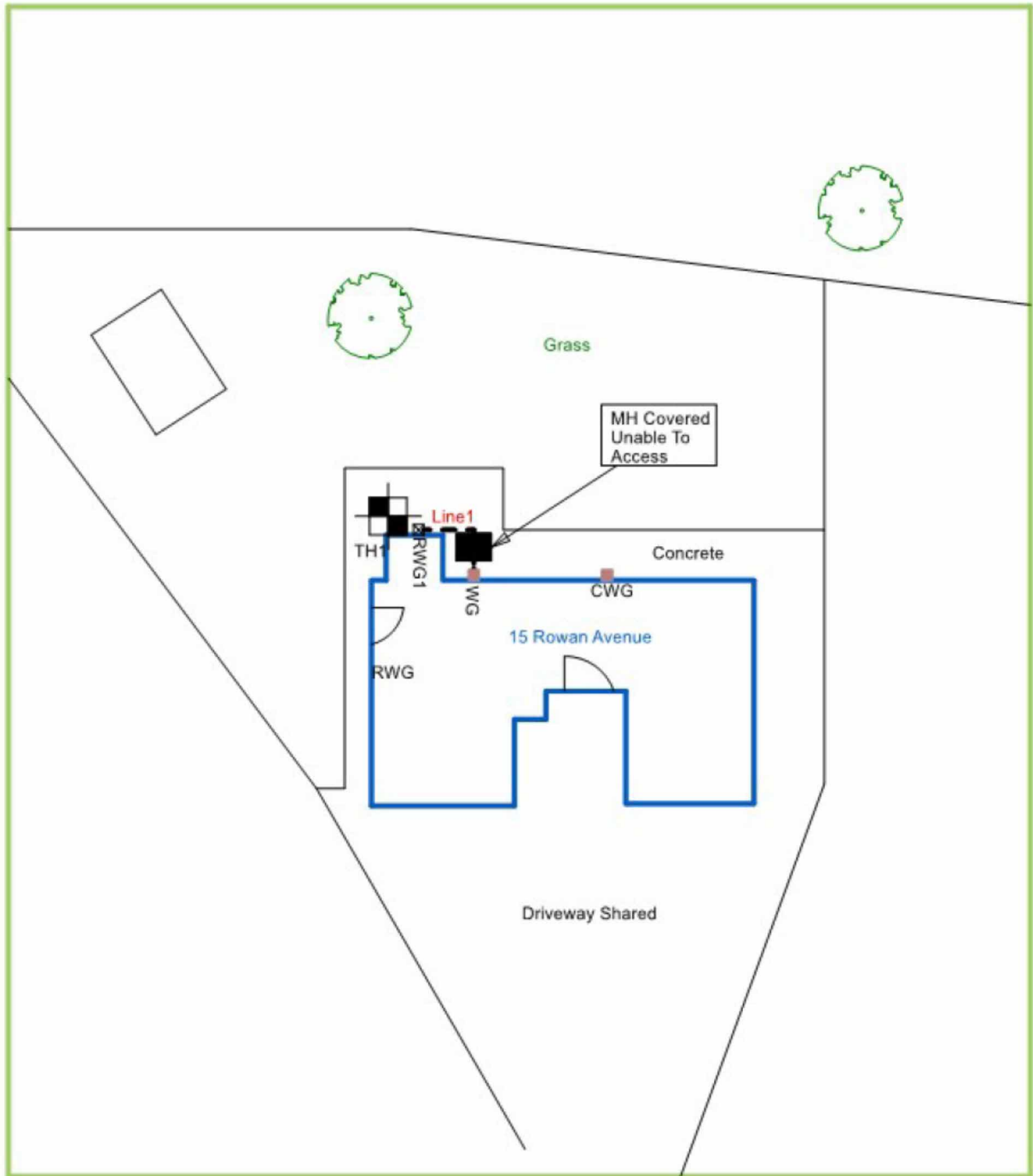
Site Photos

Fig 3.1: Storage boxes preventing access to MH



Fig 3.2: Rear of property





FRONT OF PROPERTY

This drawing should be used for diagrammatic purposes only. Auger are not responsible or liable for any 3rd party works undertaken using the details outlined in this drawing. Confirmation of the drainage configuration can only be confirmed by excavation or detailed technical survey.

LEGEND					
= Manhole (MH)	= Blockage / Collapse	= Lines not camera surveyed	= Trial hole	= Shrubs / Bush	
= Inspection Chamber (IC)	= Soil Vent Pipe (SVP) / WC	= Lines camera surveyed	= Borehole	= Hedge	
= Inspection Point (IP)	= Combined Waste Gully (CWG) / Foul Waste Gully (FWG)	= Assumed water mains feed	= Direction of flow	= Tree	
= Rainwater Gully (RWG)	= Walls	= Fences	= Gate / Door	= Steps	
= Rainwater Pipe (RWP)	= Building Outline				



Trial Hole Log No.1

Location: TH1 rear of the property

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Depth (m)	Symbolic Log	Strata Description	Insitu Tests		Soil Sample	Root Sample
			SV(19)			
0.0		Ground Level				
		Concrete				
		Brickwork				
		Concrete				
0.5		Moist stiff Brown fine to medium gravelly clayey SILT	72kpa		Soil @ 0.5m	Root @ 0.5m
1.0		60kpa		Soil @ 1m	Root @ 1m	
1.5		80kpa		Soil @ 1.5m		
2.0		92kpa		Soil @ 2m		
2.5		70kpa		Soil @ 2.5m		
3.0		Moist stiff Brown fine to medium gravelly silty CLAY TRIAL HOLE TERMINATED	70kpa		Soil @ 3m	

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

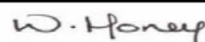
Policy Holder	
GSTL Job Reference	65119
SI Date	06/03/2023
Issue Date	06/03/2023
Report Date	20/03/2023
Auger Reference	145038.1.2.RSS
Insurance Company	Broadspire
LA Claim Reference	SU2203656
LA Co. Reference	Crawford & Co

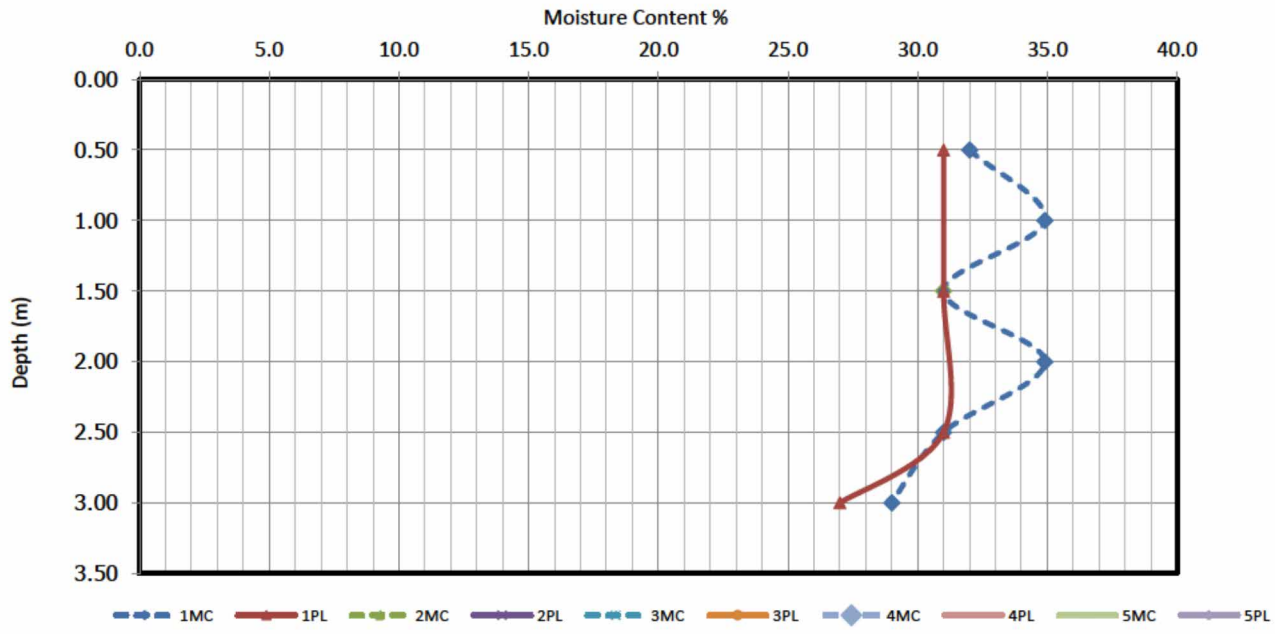
This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of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

Checked and approved

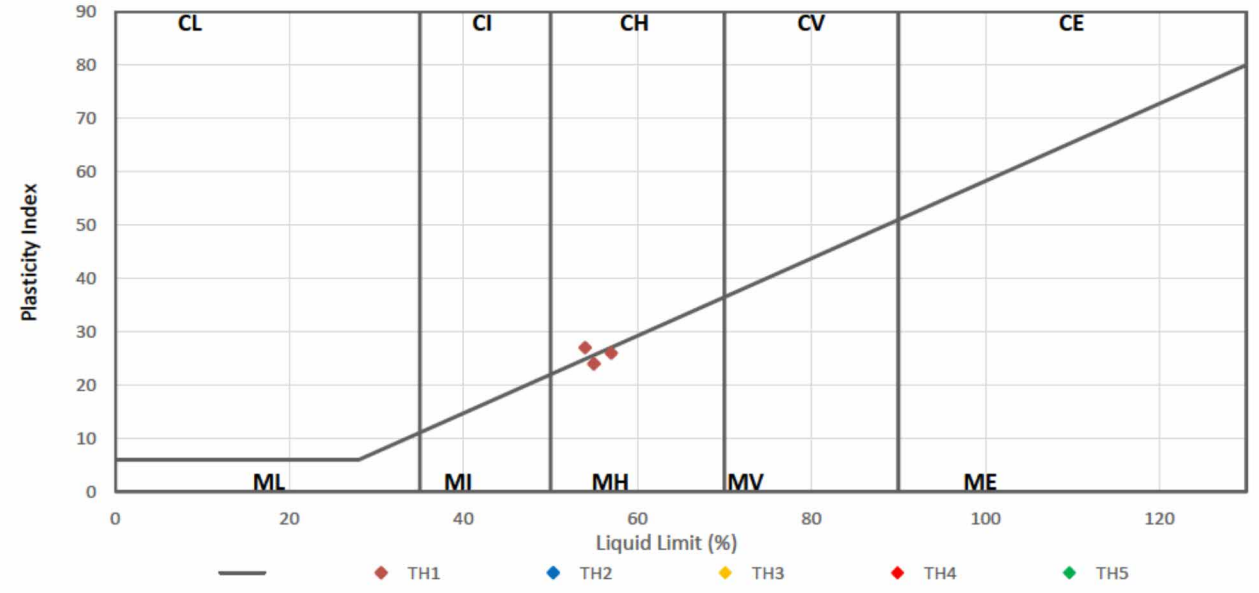
20/03/2023

Wayne Honey





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



Richardson's Botanical Identifications

Root identification
Vegetation surveys
Tree/Building investigations
Plant taxonomy

Auger Solutions

Auger House

Cross Lane

WALLASEY

Wirral CH45 8RH

Dr Ian B K Richardson
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James Richardson
BSc (Hons. Biology)

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E-mail: richardsons@botanical.net

Web: www.botanical.net

Your ref: 145038-1-1

Our ref: 86/2002

14/04/2023

Dear Sirs

Root ID

The samples you sent in relation to the above on 06/03/2023 have been examined. Their structures were referable as follows:

TH1, 0.5m		
6 no.	Examined root: FRAXINUS (Ash).	Alive, recently*.
2 no.	Both samples revealed too few cells for microscopic identification.	
TH1, 1.0m		
4 no.	Examined root: FRAXINUS (Ash).	Alive, recently*.
1 no.	Microscopic examination showed insufficient cells for recognition.	

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

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.

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