

Site Investigation Report

Auger Ref:

140865.1.USI



Job Information

Client	Crawford & Co
Client ref	SU2202472
Visit date	13/10/2022
Report date	19/10/2022

Job Summary

- ✓ 2 trial holes undertaken. [Read more.](#)
- ⚠ No CCTV survey undertaken. [Read more.](#)
- ⚠ Water encountered in TH2 [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	TH1 and TH2 were able to reach the required depth in the proposed locations. Soil and root samples were taken. Water was encountered at 0.7m in TH2.
Visual Inspection	A visual inspection of the site revealed WG1 has broken/cracked. Our engineer also noticed that the trap in MH1 had a large fracture. However these were noted to be outside of the AOC.
	Dye testing was undertaken on WG1 to confirm it runs to MH1, the dye test did not reveal an escape of water.
Visual Inspection	We carried out a water mains listening test whilst on site which revealed that there was no evidence of a leak on the incoming water supply serving the property.
Drain Survey	No CCTV survey of the underground drainage was undertaken whilst on site because there was No drainage within 3m of AOC
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



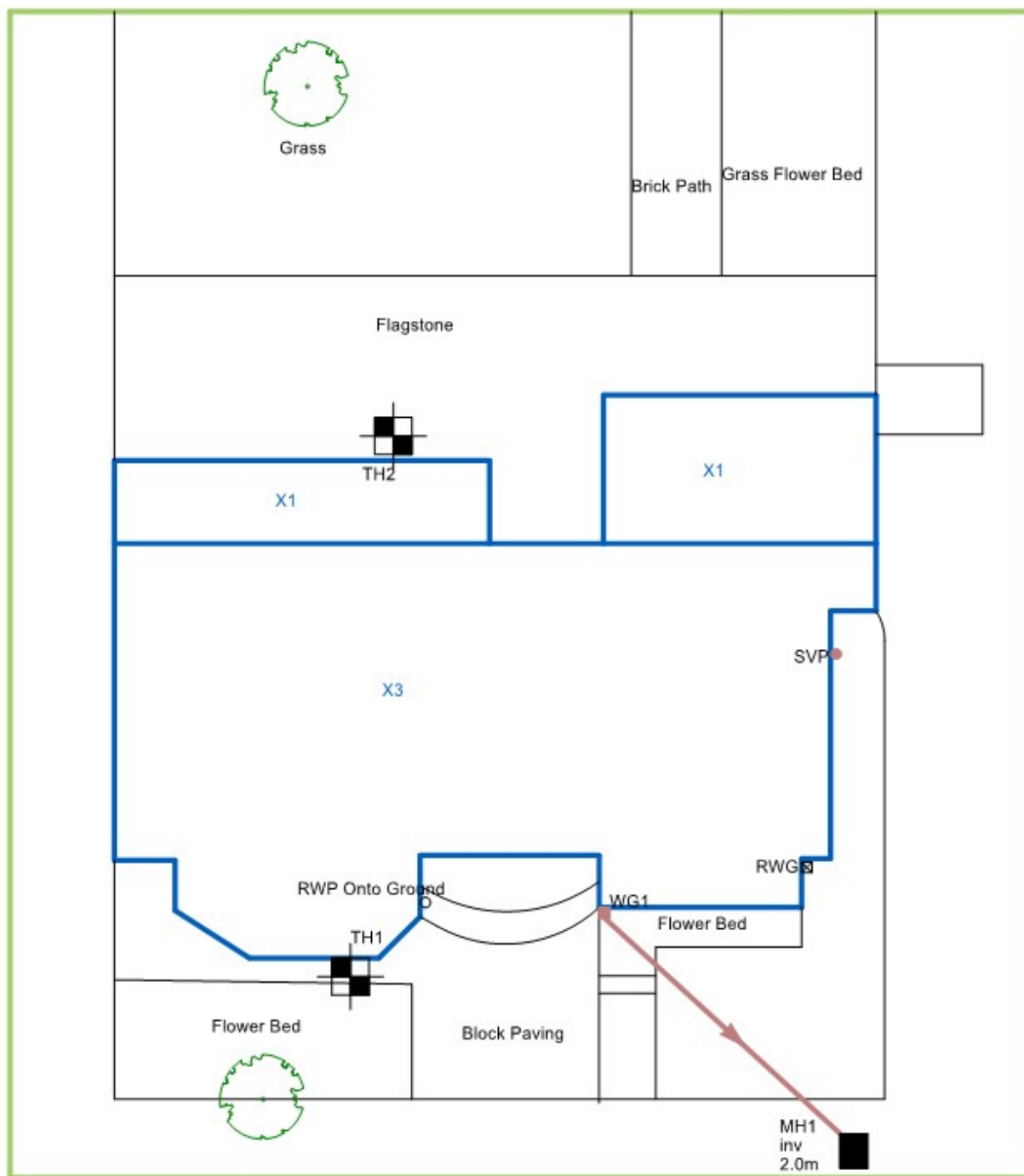
Site Photos

Fig 3.1: WG1 Dye Test



Fig 3.2: MH1





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	 = Gate / Door	 = Steps
	 = Rainwater Pipe (RWP)	 = Fences		
		 = Building Outline		



Trial Hole Log No.1

Location: Front right corner of bay

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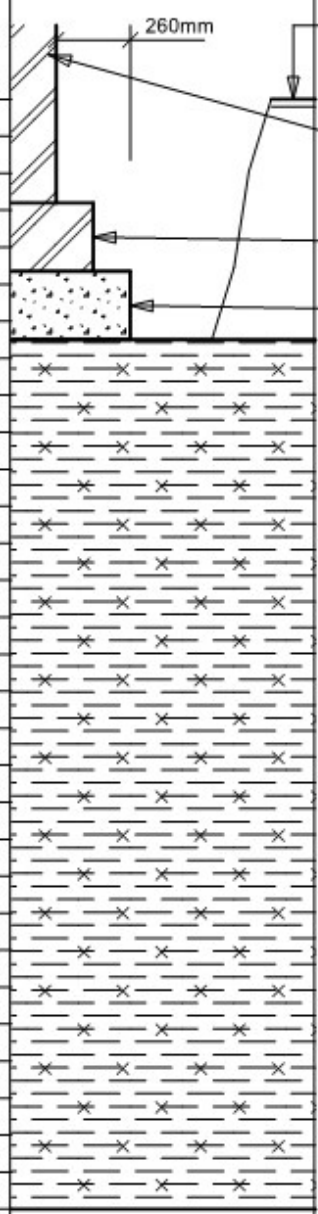
Depth (m)	Symbolic Log	Strata Description	Insitu Tests		Soil Sample	Root Sample
			SV(19)			
0.0		Brown fine to medium gravelly silty CLAY	140kpa		Soil @ 0.65m	Root @ 0.65m
1.0			132kpa		Soil @ 1.15m	Root @ 1.15m
1.5			118kpa		Soil @ 1.65m	
2.0			102kpa		Soil @ 2.15m	
2.5			90kpa		Soil @ 2.65m	
3.0			90kpa			
		TRIAL HOLE TERMINATED				



Trial Hole Log No.2

Location: Rear projection

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Depth (m)	Symbolic Log	Strata Description	Insitu Tests		Soil Sample	Root Sample
			SV(19)			
0.0		Ground Level				
		Flagstones				
		Brickwork				
		Step Underpinned				
0.5		Concrete				
		Brown fine to medium gravelly silty CLAY	70kpa		Soil @ 0.65m	
1.0			78kpa		Soil @ 1.15m	
1.5			86kpa		Soil @ 1.65m	
2.0			98kpa		Soil @ 2.15m	Root @ 2.15m
2.5			112kpa		Soil @ 2.65m	
3.0		TRIAL HOLE TERMINATED				

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

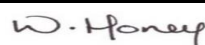
Policy Holder	Unknown
Risk Address	Unknown
SI Date	13/10/2022
Issue Date	13/10/2022
Report Date	03/11/2022
Auger Reference	140865.1.2.RSS
Insurance Company	RSA
LA Claim Reference	SU2202472
LA Co. Reference	Crawford & Co

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

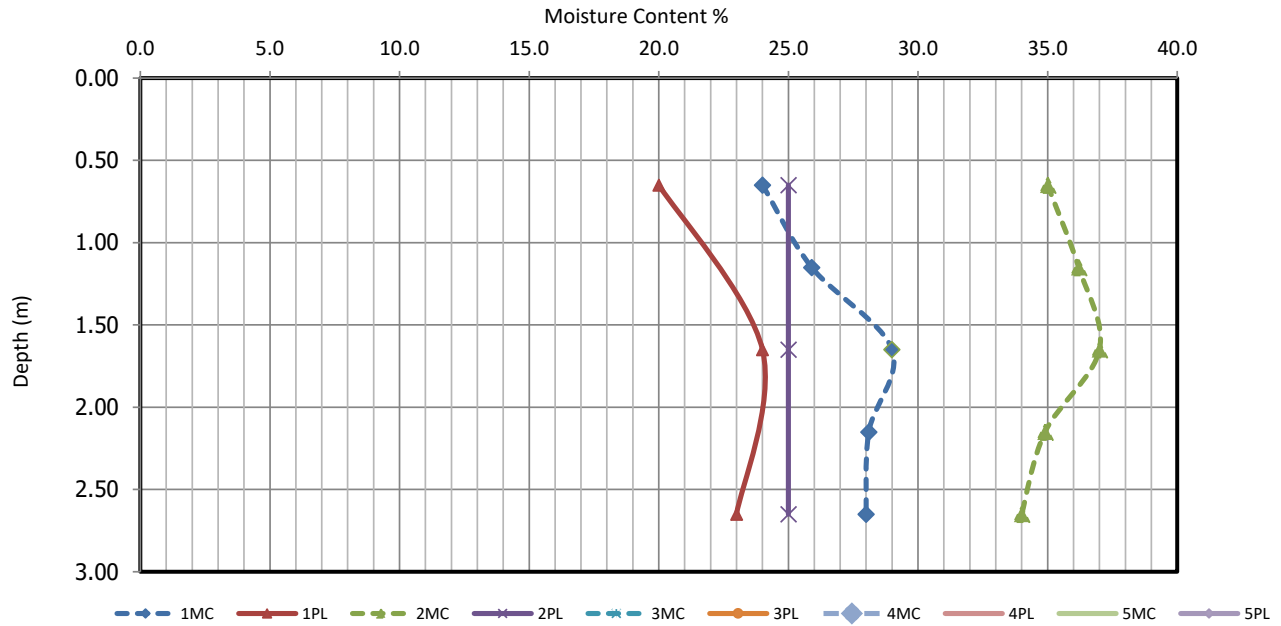
03/11/2022

Wayne Honey

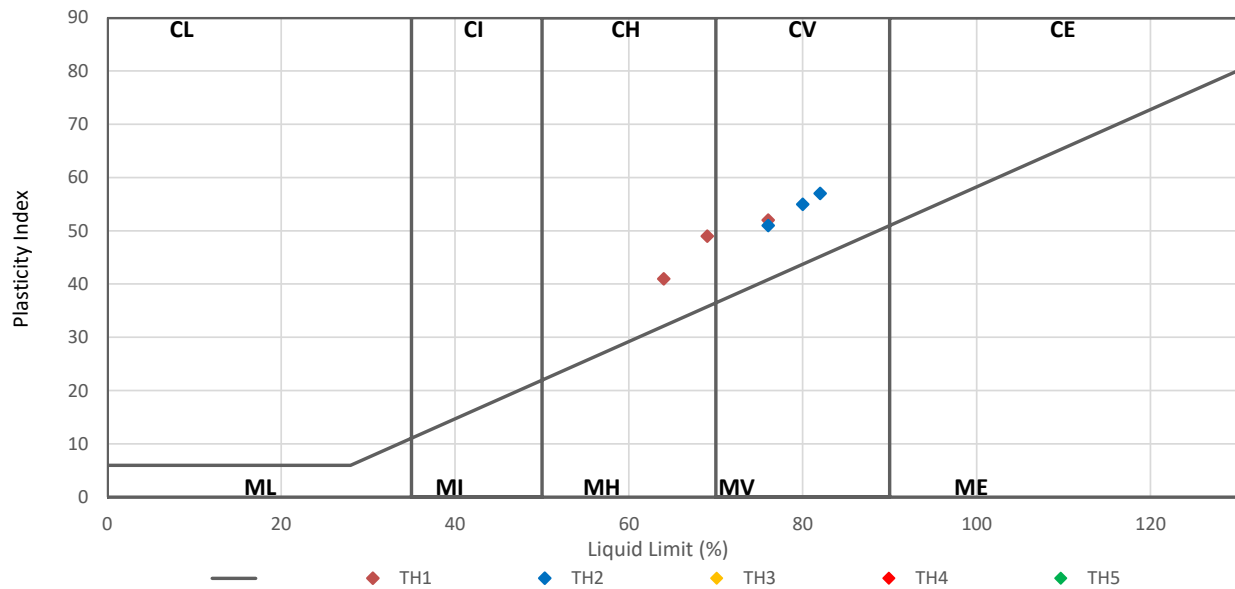




Test Operator
Jason Smith



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



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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Reading
RG6 7BB

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E-mail: richardsons@botanical.net

Web: www.botanical.net

Your ref: 140865-1-1

Our ref: 84/3805

29/10/2022

Dear Sirs

Root ID

The samples you sent in relation to the above on 13/10/2022 have been examined. Their structures were referable as follows:

TH1, 0.65m		
3 no.	Examined root: ACER (Maples, Sycamores).	Alive, recently*.
5 no.	Unfortunately all with insufficient cells for identification.	
TH1, 1.15m		
5 no.	Although we carried out extensive laboratory work, unfortunately all samples proved to be too immature to identify.	Dead* (note this 'dead' result can be unreliable with such thin samples).
TH2, 2.15m		
3 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). Slightly tentative - this was less than 0.07mm in diameter.	Dead* (as above, this 'dead' result could be an unreliable one).
2 no.	Both samples revealed too few cells for microscopic identification.	

Click here for more information: [ACER](#) [POMOIDEAE](#) [PRUNUS](#)

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.