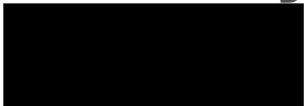


Site Investigation Report



Job Information	
Client	Crawford & Co
Client ref	
Visit date	27/01/2023
Report date	13/02/2023

Job Summary	
✓	2 trial holes undertaken. Read more.
⚠	Water encountered in TH1 Read more.
⚠	Requested root samples not taken. Read more.



Job Information

Overview	
Brief	Auger were commissioned by Crawford & Co to undertake a site investigation within the area of concern (AOC) at the property.

Findings	
Trial Hole Findings	<p>Within Trial hole 1 we revealed the footing but were unable to auger to the required depth (3m) in the proposed location due to hard soil (2.3m). We only took took soil samples down to 2m due to hard soil coupled with water suction, this meant we were unable to lift soil samples out anymore. These measurements are shown in Trial hole log 1 below. We were unable to collect root samples from TH1 because no roots were present during the trial hole, hence no samples were retrieved.</p> <p>In TH1, water was encountered at 0.9m</p> <p>Within TH1, we also took footing measurements from the Rear balcony extension. These measurements are shown in Trial Hole Log 1b below.</p> <p>Within Trial hole 2 we revealed the footing and augured to the required depth (3m) in the proposed location. We took the requested soil and root samples. These measurements are shown in Trial hole log 2 below.</p> <p>The base of the footing was determined by probing to a depth below 1m and therefore the exact profiles/depth cannot be guaranteed.</p>

Photographs

Trial Hole 1

Fig 1.1: Trial Hole 1 Location



Fig 1.2: Trial Hole 1 Footing



Fig 1.3: Trial Hole 1b Footing



Trial Hole 2

Fig 2.1: Trial Hole 2 Location



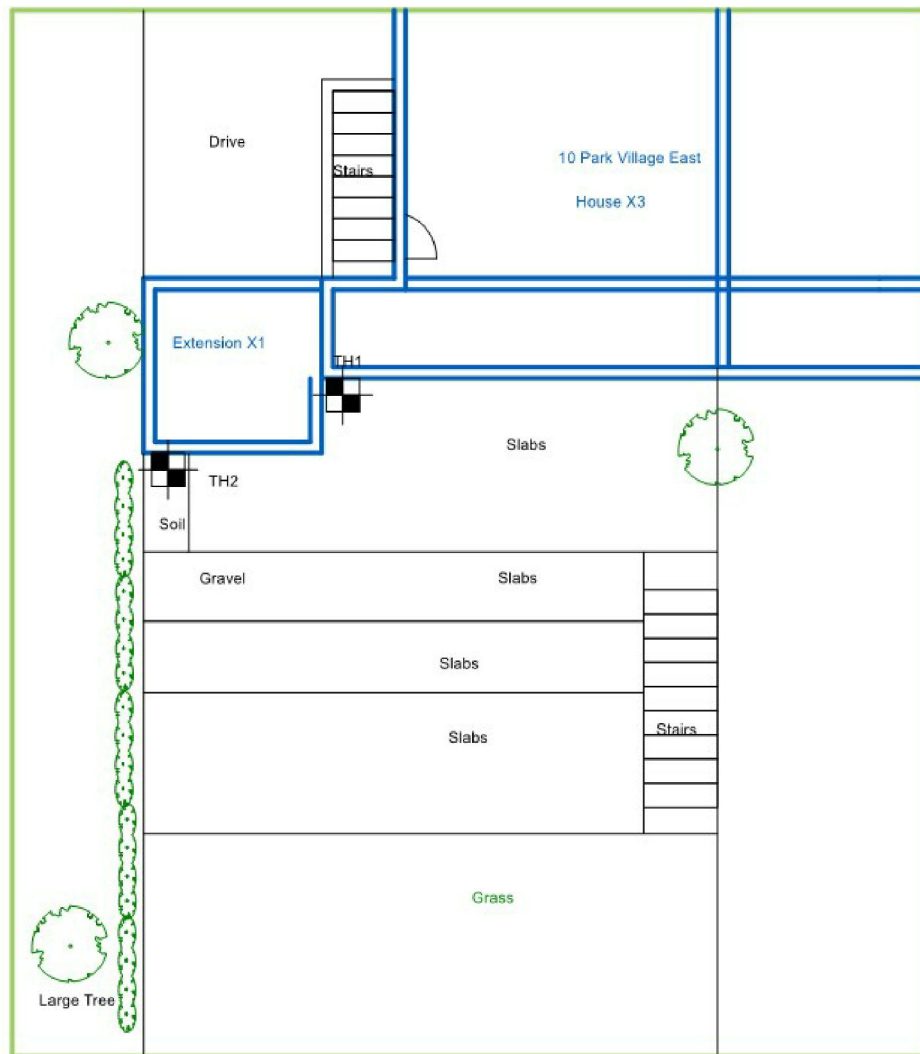
Fig 2.2: Trial Hole 2 Footing





Existing Layout

Date: 27/01/2023



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 excavations or detailed technical survey.

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



Trial Hole Log No.1

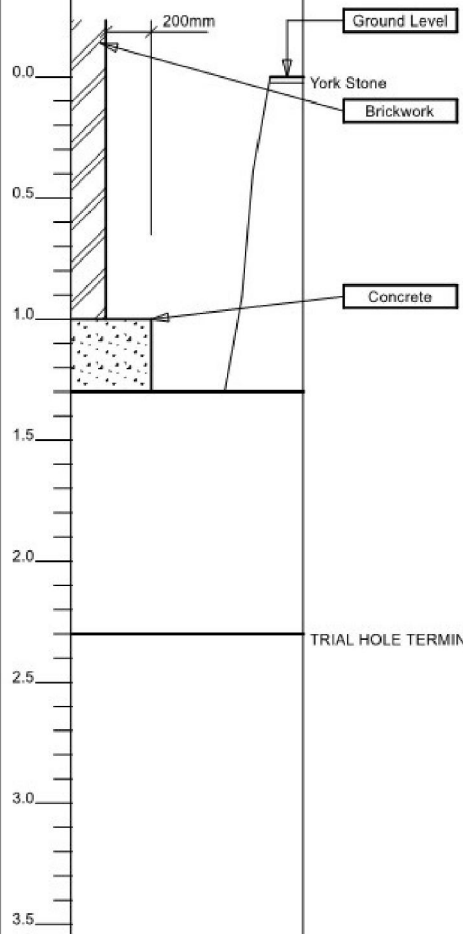
Location: Rear left in between extension A and
Balcony Extension

Depth (m)	Symbolic Log	Strata Description	Insitu Tests		Soil Sample	Root Sample
			SV(19)			
0.0		Ground Level				
0.5		Moist stiff Brown fine to medium gravelly clayey SILT	66kpa		Soil @ 0.5m	
1.0		Moist Stiff Brown fine to medium gravelly silty CLAY	78kpa		Soil @ 1m	
1.5			116kpa		Soil @ 1.5m	
2.0			128kpa		Soil @ 2m	
2.5		TRIAL HOLE TERMINATED				
3.0						
3.5						



Trial Hole Log No.1b

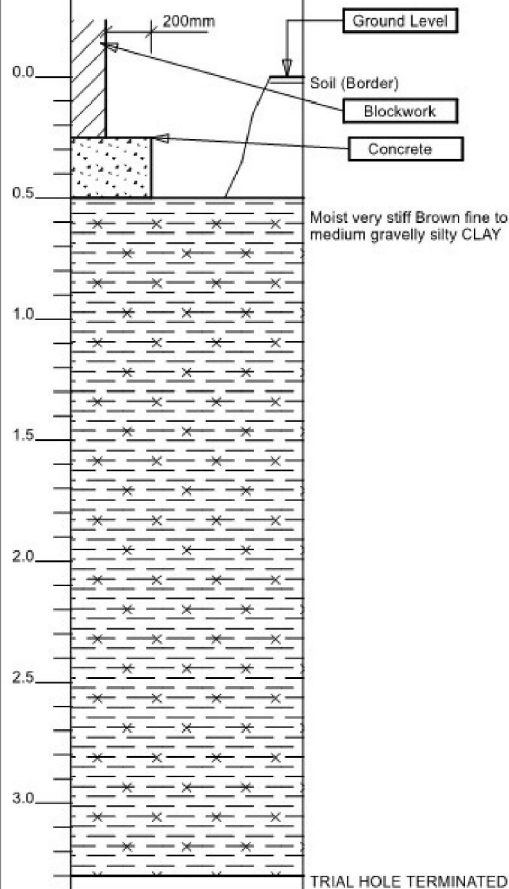
Location: Rear Balcony Extension

Depth (m)	Symbolic Log	Strata Description	Insitu Tests		Soil Sample	Root Sample
			SV(19)			
0.0		Ground Level				
0.5		York Stone				
1.0		Brickwork				
1.5		Concrete				
2.0						
2.5		TRIAL HOLE TERMINATED				
3.0						
3.5						



Trial Hole Log No.2

Location: Rear right corner

Depth (m)	Symbolic Log	Strata Description	Insitu Tests		Soil Sample	Root Sample
			SV(19)			
0.0						
0.5		Moist very stiff Brown fine to medium gravelly silty CLAY	76kpa		Soil @ 0.5m	Root @ 0.5m
1.0			86kpa		Soil @ 1m	
1.5			94kpa		Soil @ 1.5m	
2.0			140kpa		Soil @ 2m	
2.5			140kpa		Soil @ 2.5m	
3.0			140kpa		Soil @ 3m	
3.5		TRIAL HOLE TERMINATED	140kpa			



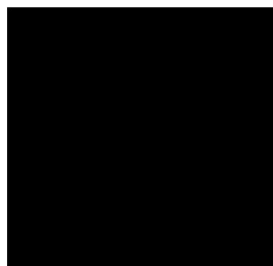
Richardson's Botanical Identifications

Root identification
Vegetation surveys
Tree/Building Investigations
Plant taxonomy

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



01/03/2023



Dear Sirs

Root ID

The samples you sent in relation to the above on 27/01/2023 have been examined. Their structures were referable as follows:

TH2, 0.5m		
2 no.	Examined root: similar in many ways to the family Rosaceae, subfamily ROSEOIDEAE (shrubs including Roses, Brambles, Raspberries, Kerria and Potentilla). This was a very IMMATURE sample.	Alive, recently*.
1 no.	Examined root: could well be a type of SHRUB (different from above). Please send us twigs from nearby bushes if this is critical - we may be able to give you a match. Very thin (less than 0.15mm in diameter); also POOR in condition.	Dead* (note this 'dead' result can be unreliable with such thin samples).
1 no.	Microscopic examination showed insufficient cells for recognition.	

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 **

Identified with no information on vegetation, on or off site.

Report commissioned by





Geotechnical Testing Analysis Report



environmental +
claims mgmt +
subsidence +
drainage +

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

Summary Of Claim Details

Policy Holder	
GSTL Job Reference	
SI Date	27/01/2023
Issue Date	27/01/2023
Report Date	15/02/2023
Auger Reference	
Insurance Company	RSA
LA Claim Reference	
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

15/02/2023

Wayne Honey

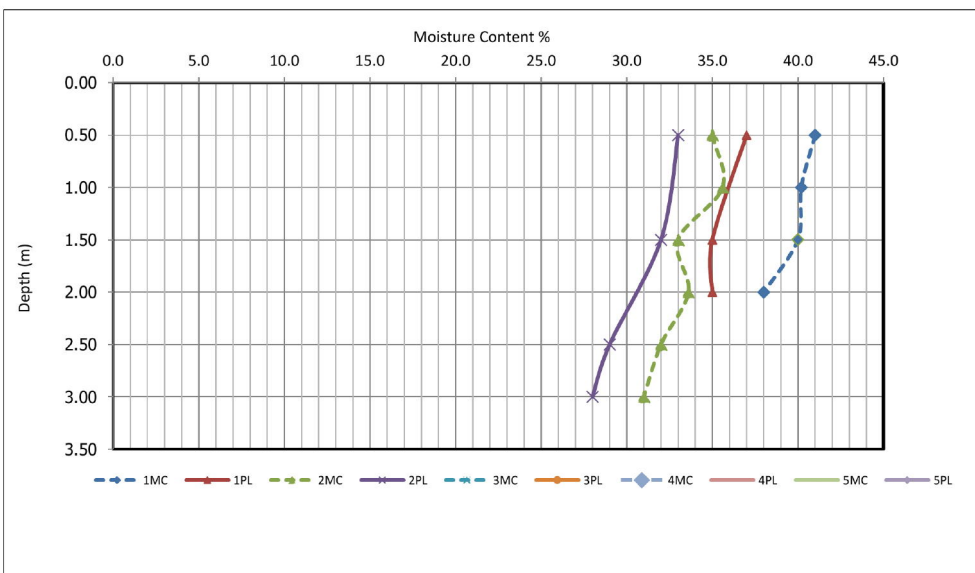


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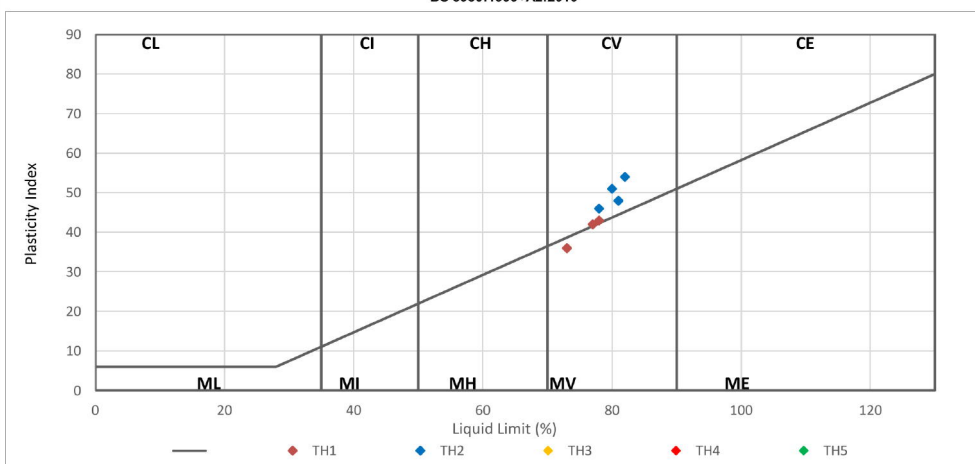




Test Operator
Jason Smith



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