[redacted]

Site Investigation Report

Auger Ref:

[redacted]

Job Information	
Client	Crawford & Co - Allianz (Subsidence)
Client ref	[redacted]
Visit date	20/02/2020
Report date	13/03/2020

Job Summary

- 2 trial holes undertaken. Read more.
- Requested soil samples taken. Read more.
- Requested root samples taken. Read more.

[redacted]

Job Information

Overview	
Brief	Auger were commissioned by Crawford & Co - Allianz (Subsidence) to undertake a site investigation within the area of concern at the property.
Trial Hole Findings	Trial Hole 1 could not be completed due to the raised ground level on the customer's property. Additionally, the property had a basement flat that prevented our engineer reaching the desired depth d the trial hole. Due to this we wouldn't be able to encounter the foundations and footing of the property. We therefore, a borehole was dug out in the neighbouring property to collect the necessary soil samples down to 3mtrs.

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

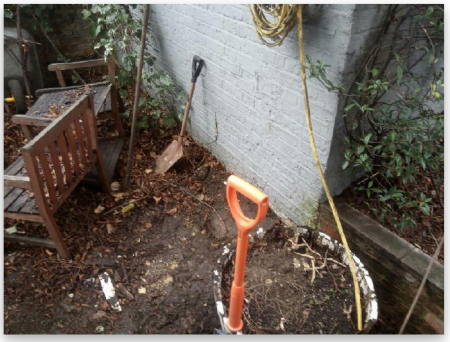

Fig 2.2: Trial Hole 2 Footing

Other Photos

Fig 7.1: Trial Hole 1 Original Location

Fig 7.2: Raised Driveway

Fig 7.3: Basement Flat

Fig 7.4: Neighbour's Driveway

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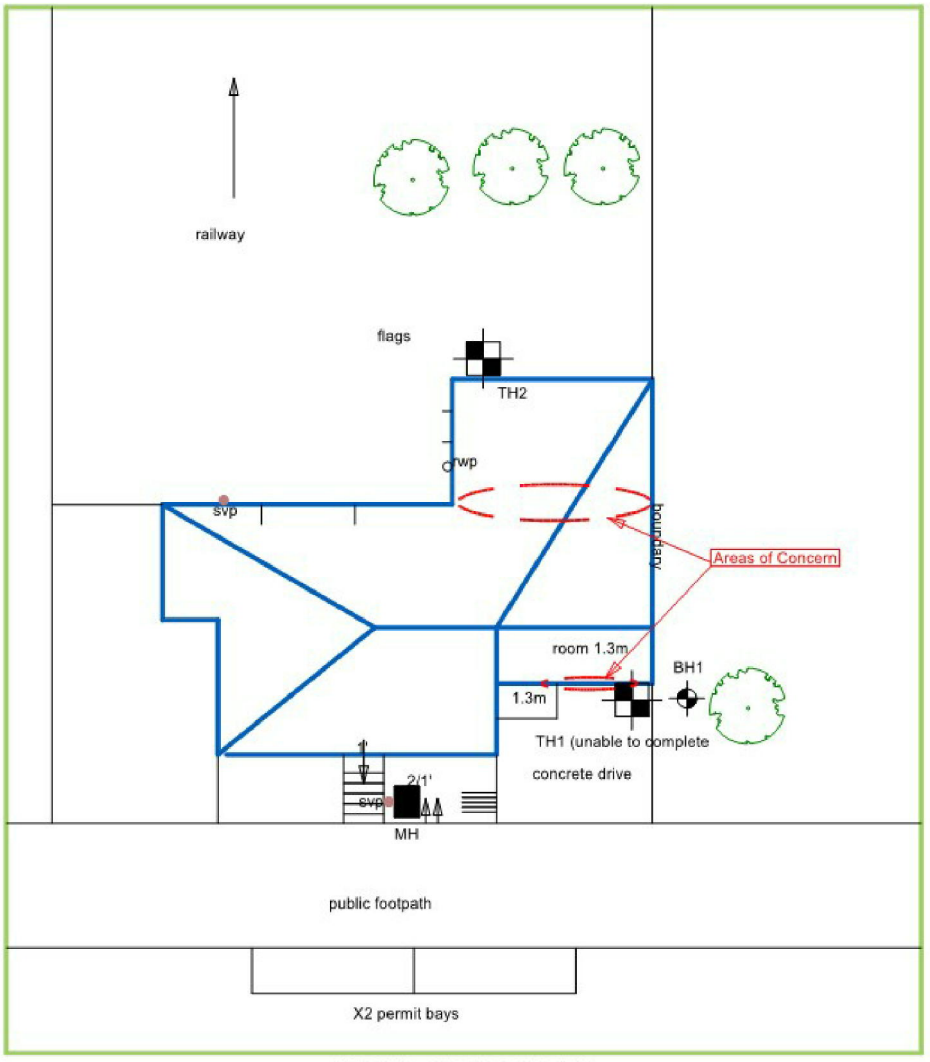
Existing Layout

Date: 20/02/2020



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
- = Inspection Chamber
- = Inspection Pot
- = Blockage
- = svp/w/c
- = wg/fwg
- = rwg
- = rwp
- = Lines not camera surveyed
- = Lines camera surveyed
- = Assumed water mains feed
- = Walls
- = Fences
- = Building Outline
- = Steps
- = gate / door
- = Trial hole
- = Borehole
- = Direction of flow
- = Shrubs/bush
- = Hedge
- = Tree

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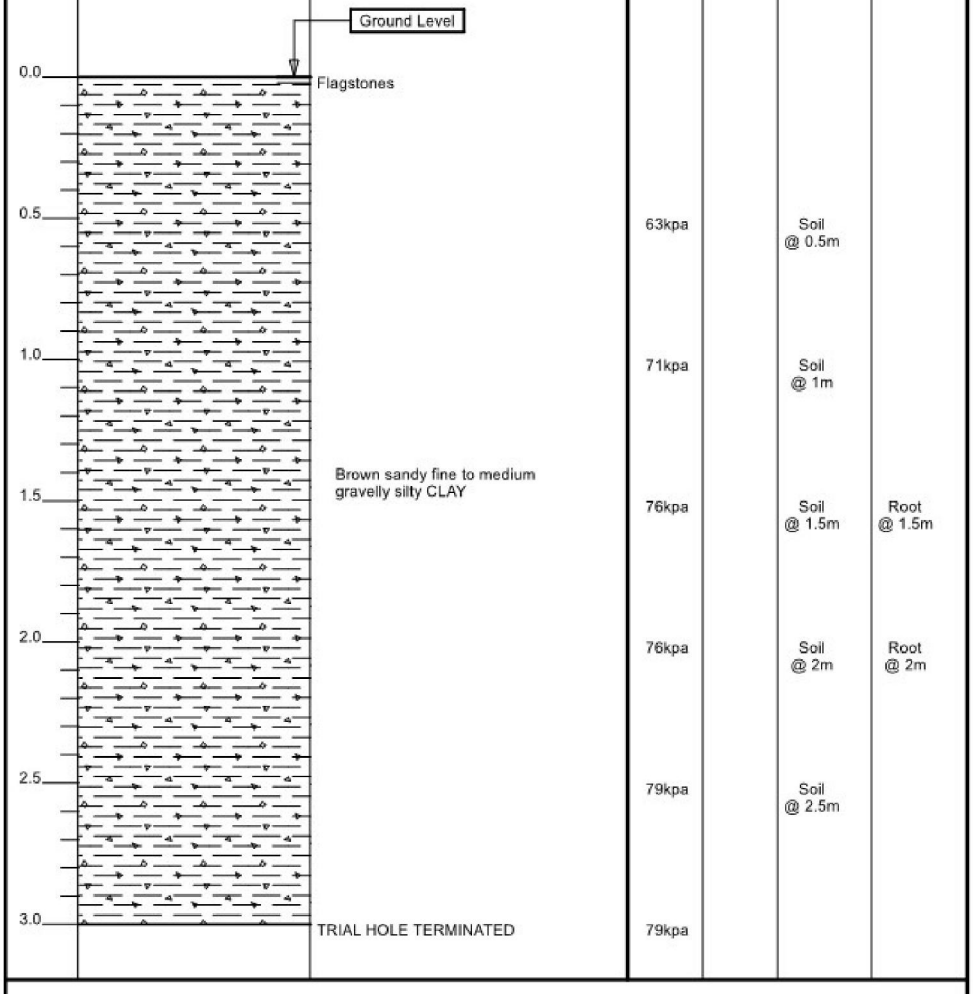
Trial Hole Log No.1

Location: RHS of boundary wall

[redacted]



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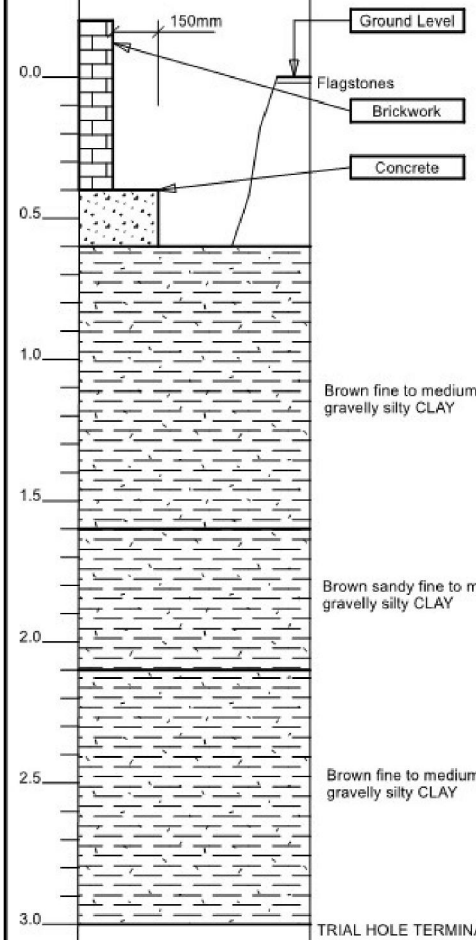
Trial Hole Log No.2

Location: Rear LHC of amwx

[redacted]



Depth (m)	Symbolic Log	Strata Description	Insitu Tests SV(19)	Soil Sample	Root Sample
0.0					
0.5			41kpa		
1.0		Brown fine to medium gravelly silty CLAY	71kpa	Soil @ 1.1m	Root @ 1.1m
1.5			79kpa	Soil @ 1.6m	Root @ 1.6m
2.0		Brown sandy fine to medium gravelly silty CLAY	84kpa	Soil @ 2.1m	
2.5		Brown fine to medium gravelly silty CLAY	99kpa	Soil @ 2.6m	
3.0		TRIAL HOLE TERMINATED	100kpa		

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)

Auger Solutions

[redacted]

[redacted]

09/03/2020

Dear Sirs

Root ID

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

TH1, 1.1m		
2 no.	Examined root: TILIA (Lime).	Dead*.
TH1, 1.6m		
2 no.	Examined root: HEDERA (Ivy) - or the related FATSIA (a robust shrub with fig-like leaves).	Alive, recently*.
BH1, 1.5m		
1 no.	Examined root: BETULA (Birch).	Alive, recently*.
1 no.	Examined root: TILIA (Lime).	Dead*.
BH1, 2.0m		
1 no.	Examined root: BETULA (Birch).	Alive, recently*.

Click here for more information: BETULA TILIA

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

Yours faithfully

[redacted]

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 * *

GSTL	Geotechnical Testing Analysis Report	auger environmental + claims mgmt + subsidence + drainage +
[redacted]		[redacted]

Summary Of Claim Details

Policy Holder	Unknown
Risk Address	Unknown
SI Date	20/02/2020
Issue Date	21/02/2020
Report Date	06/03/2020
Auger Reference	[redacted]
Insurance Company	Allianz
LA Claim Reference	[redacted]
LA Co. Reference	Crawford & Co

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	Checked	06/03/2020	Wayne Honey	[redacted]
	Approved	06/03/2020	Paul Evans	

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GSTL

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX
(BS 1377 : Part 2 : 1990 Method 5)
DESCRIPTIONS

auger environmental + claims mgmt + subsidence + drainage +

GSTL Contract Number	[redacted]	
Risk Address	**Unknown**	
Auger Reference	[redacted]	

TH Trial Hole	Sample Type	Depth (m)	Sample Description
TH1	D	0.50	Brown sandy fine to medium gravelly silty CLAY
TH1	D	1.00	Brown sandy fine to medium gravelly silty CLAY
TH1	D	1.50	Brown sandy fine to medium gravelly silty CLAY
TH1	D	2.00	Brown sandy fine to medium gravelly silty CLAY
TH1	D	2.50	Brown sandy fine to medium gravelly silty CLAY
TH2	D	1.10	Brown fine to medium gravelly silty CLAY
TH2	D	1.60	Brown sandy fine to medium gravelly silty CLAY
TH2	D	2.10	Brown fine to medium gravelly silty CLAY
TH2	D	2.60	Brown fine to medium gravelly silty CLAY

Test Operator	Checked	06/03/2020	Wayne Honey	[redacted]
Luke Williams	Approved	06/03/2020	Paul Evans	

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GSTL

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX
(BS 1377 : Part 2 : 1990 Method 5)

auger environmental + claims mgmt + subsidence + drainage +

GSTL Contract Number	[redacted]	
Risk Address	**Unknown**	
Auger Reference	[redacted]	
Remarks	NP - (Non-Plastic), # - (Liquid Limit and Plastic Limit Wet Sieved)	

TH Trial Hole	Sample Type	Depth (m)	Moisture Content %	Liquid Limit %	Plastic Limit %	Plasticity index %	Passing .425mm %	NHBC Chapter 4.2	Remarks
TH1	D	0.50	22	76	21	55	70	HIGH VCP	CV Very High Plasticity
TH1	D	1.00	23						
TH1	D	1.50	23	76	21	55	74	HIGH VCP	CV Very High Plasticity
TH1	D	2.00	36						
TH1	D	2.50	28	83	22	61	92	HIGH VCP	CV Very High Plasticity
TH2	D	1.10	32	72	25	47	89	HIGH VCP	CV Very High Plasticity
TH2	D	1.60	36						
TH2	D	2.10	33	83	25	58	82	HIGH VCP	CV Very High Plasticity
TH2	D	2.60	30	71	22	49	86	HIGH VCP	CV Very High Plasticity

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"

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Luke Williams	Approved	06/03/2020	Paul Evans	

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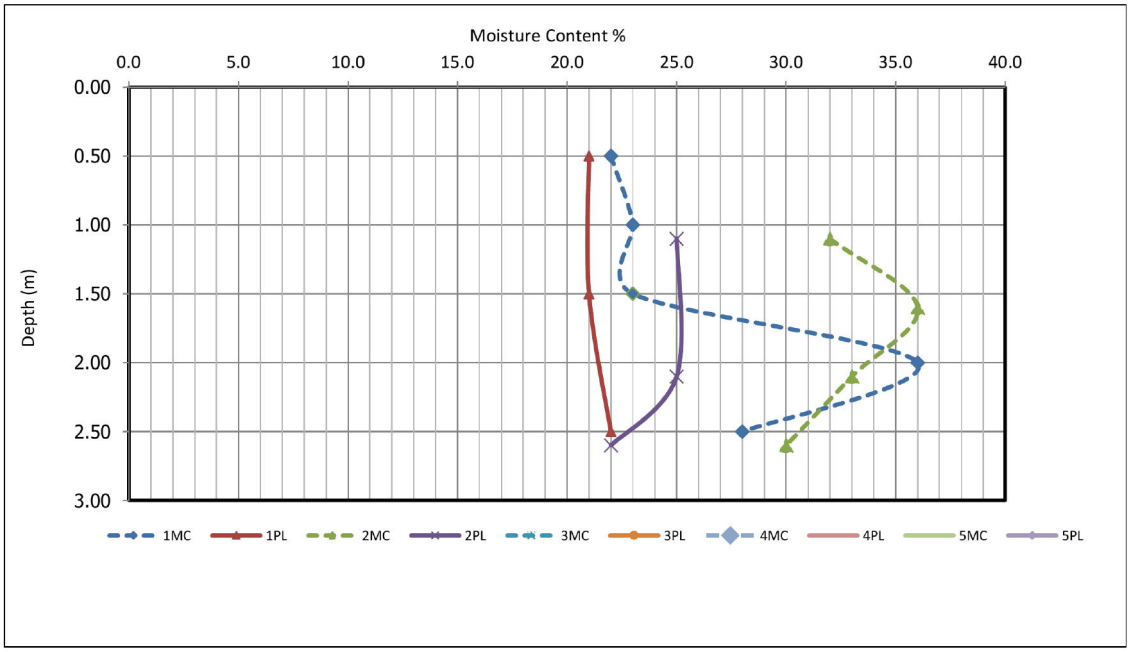
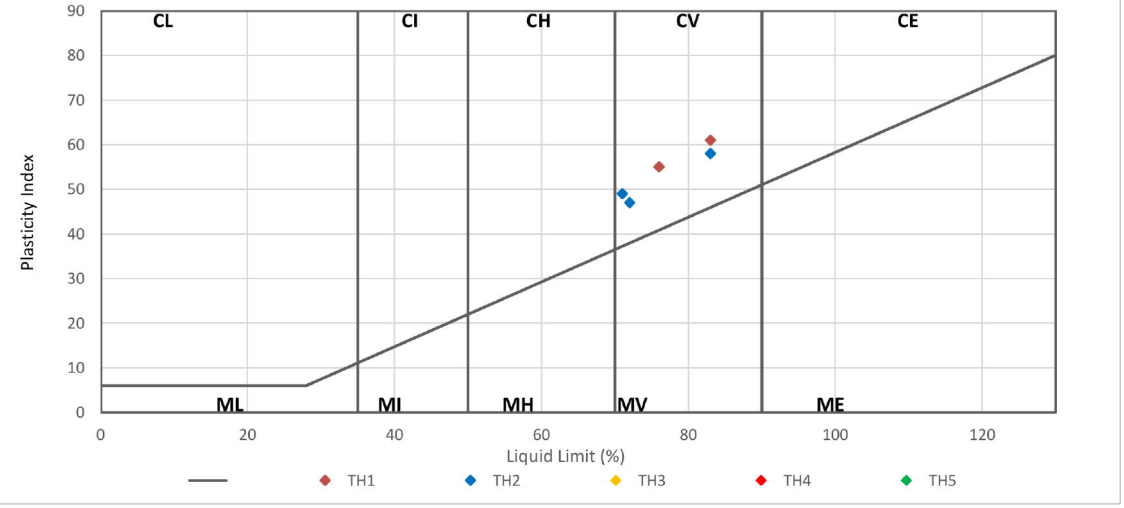


PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION
BS 5930:1999+A2:2010



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"

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Luke Williams	Approved	06/03/2020	Paul Evans	

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2788