

# Site Investigation Report

Auger Ref:

129960.1.TSI



## Job Information

Client	Sedgwick
Client ref	9255790
Visit date	22/11/2021
Report date	22/11/2021

## Job Summary

- ✓ 1 trial hole undertaken. [Read more.](#)
- ✓ Requested soil samples taken. [Read more.](#)
- ✓ Requested root samples taken. [Read more.](#)



# Job Information

## Overview

### Brief

Auger were commissioned by Sedgwick to undertake a site investigation within the area of concern at the property.

Auger were advised to excavate a single trial hole at the rear left corner of the property, from this we were to collect soil and root samples

## Findings

### Trial Hole Findings

TH1 was excavated as proposed and the requested soil and root samples were retrieved.

# Photographs

## Trial Hole 1

Fig 1.1: Trial Hole 1 Location

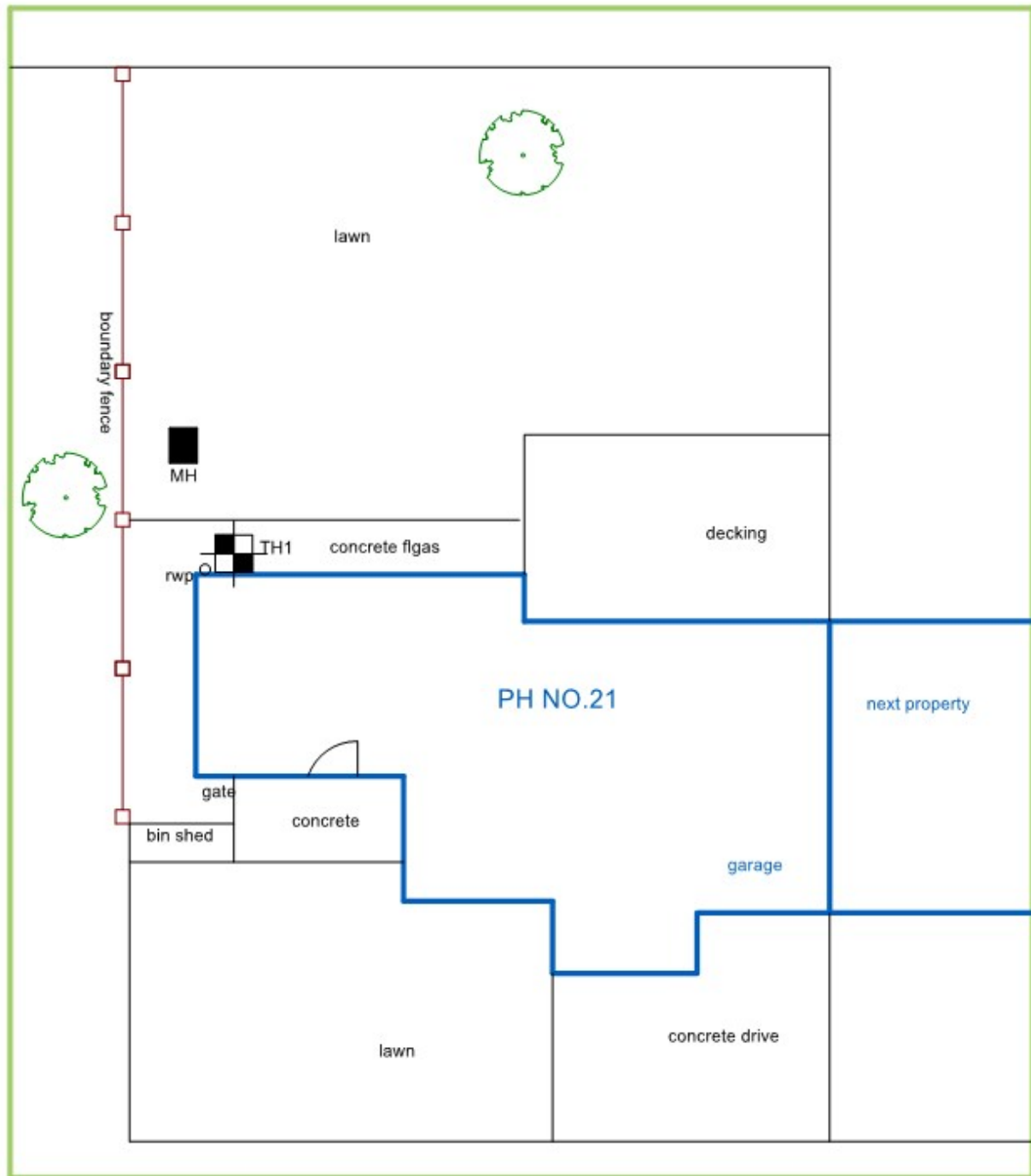


Fig 1.2: Trial Hole 1 Footing



Fig 1.3: Trial Hole 1 Footing





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



# Trial Hole Log No.1

Location: Rear elevation of single storey property

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Depth (m)	Symbolic Log	Strata Description	Insitu Tests		Soil Sample	Root Sample
			SV(19)			
0.0	<p>200mm</p> <p>Ground Level</p> <p>Flagstones</p> <p>Brickwork</p> <p>Concrete</p>					
0.5		Brown slightly sandy gravelly silty CLAY	48kpa		Soil @ 0.6m	Root @ 0.6m
1.0			52kpa		Soil @ 1.1m	Root @ 1.1m
1.5		Moist stiff Brown sandy silty CLAY	58kpa		Soil @ 1.6m	
2.0		62kpa		Soil @ 2.1m		
2.5		72kpa		Soil @ 2.6m		
3.0		TRIAL HOLE TERMINATED	72kpa			



# 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

Auger House

Cross Lane

WALLASEY

Wirral CH45 8RH

Enterprise House  
49-51 Whiteknights Road  
Reading  
RG6 7BB

Tel: (0118) 986 9552 (*Direct line*)

E-mail: [richardsons@botanical.net](mailto:richardsons@botanical.net)

Web: [www.botanical.net](http://www.botanical.net)

Your ref: 129960-1-1

Our ref: 83/2303

15/12/2021

Dear Sirs

### Root ID

The samples you sent in relation to the above on 22/11/2021 have been examined. Their structures were referable as follows:

TH1, 0.6m		
2 no.	Examined root: TILIA (Lime).	Alive, recently*.
TH1, 1.1m		
2 no.	Examined root: very THIN. We cannot rule out TILIA (Lime). Less than 0.15mm in diameter.	Dead* (note this 'dead' result can be unreliable with such thin samples).
3 no.	All sections or pieces of BARK only - alas insufficient material for identification.	

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

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](http://www.botanical.net) \*\*



# Geotechnical Testing Analysis Report



environmental +  
 claims mgmt +  
 subsidence +  
 drainage +

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	22/11/2021
Issue Date	22/11/2021
Report Date	06/12/2021
Auger Reference	129960.1.2.RSS
Insurance Company	Fairmead Insurance Limited
LA Claim Reference	9255790
LA Co. Reference	Sedgwick International UK

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.

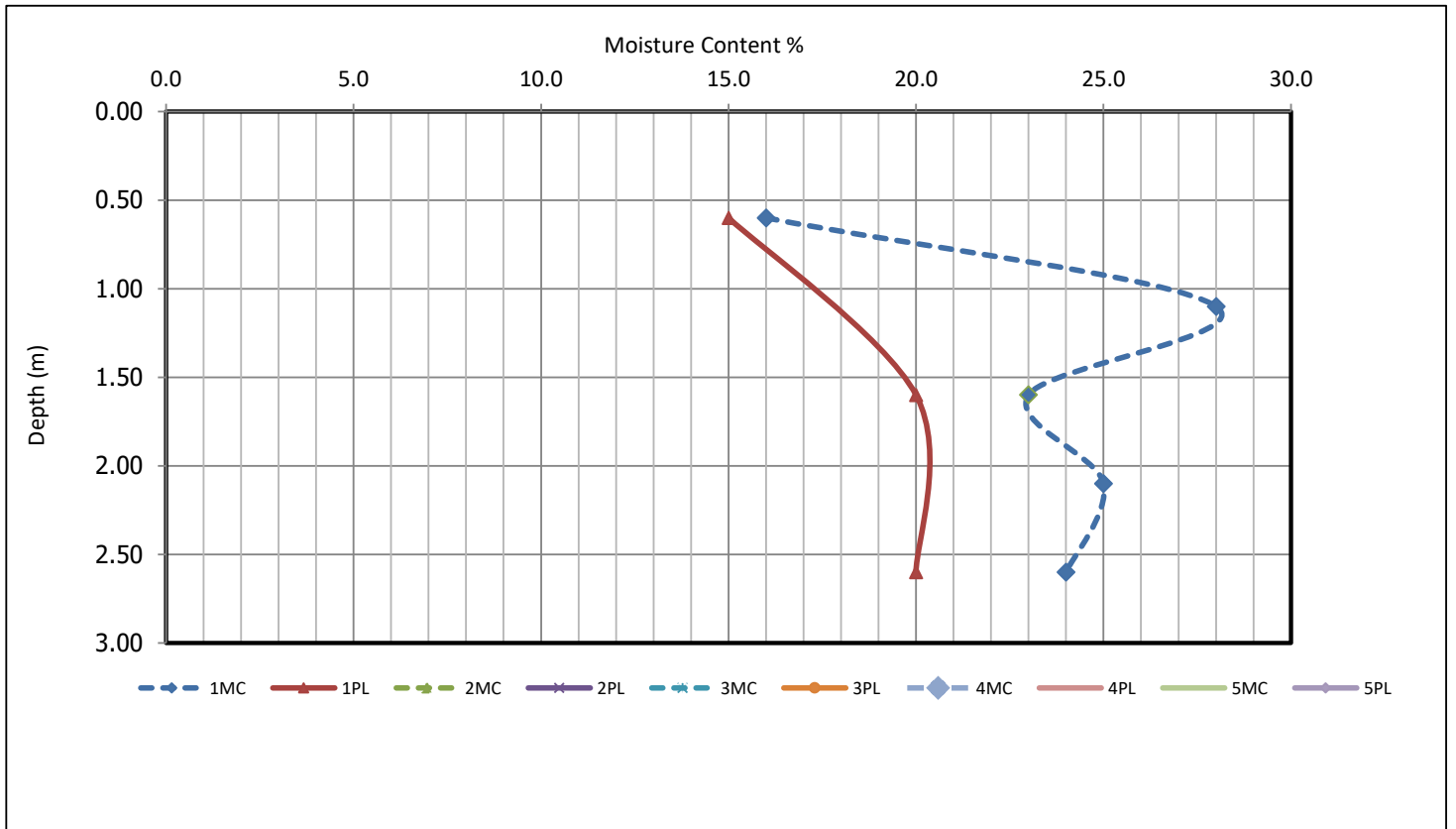
Checked	06/12/2021	Wayne Honey	
Approved	06/12/2021	Paul Evans	



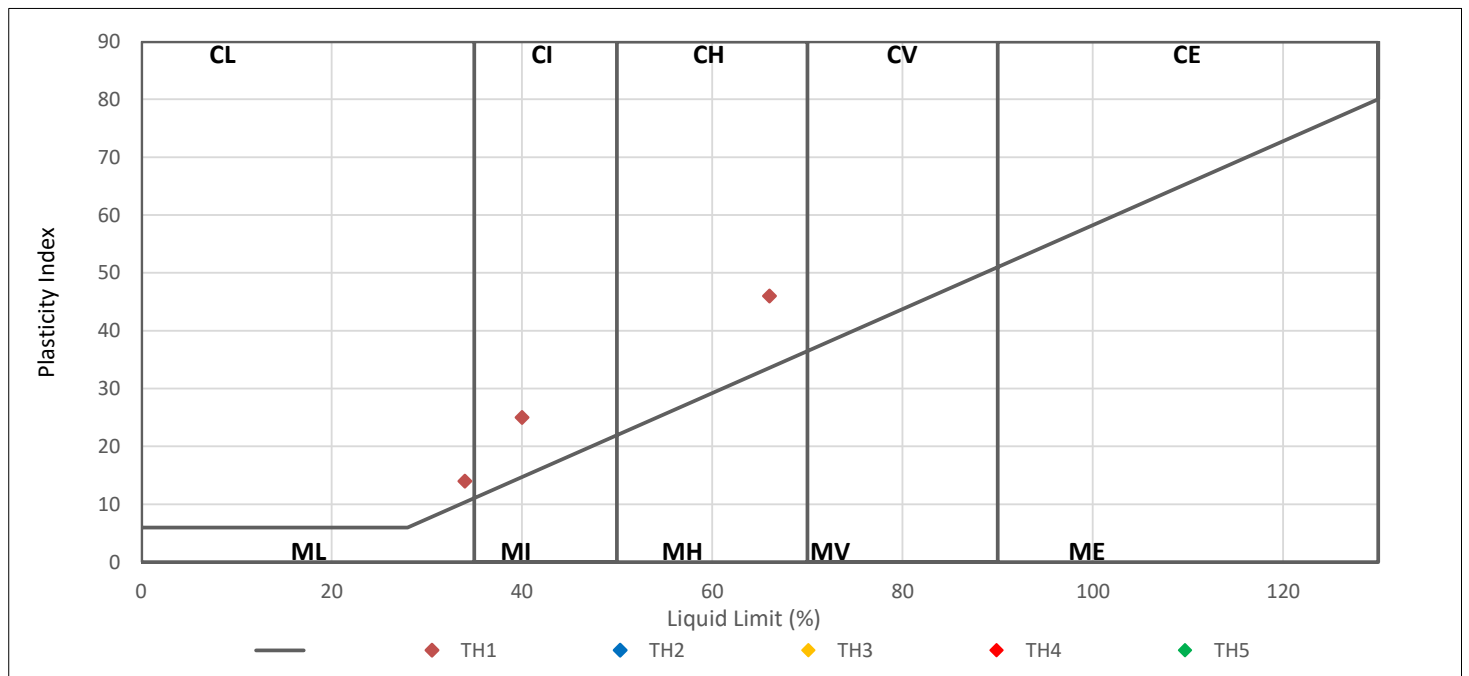








PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION  
BS 5930:1999+A2:2010



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	Checked	06/12/2021	Wayne Honey	<i>W. Honey</i>
Luke Williams	Approved	06/12/2021	Paul Evans	<i>P. Evans</i>





**SUMMARY OF SOIL CLASSIFICATION TESTS,  
Information Paper IP 4/93 February 1993 (CI/SfB p1),  
Information Paper Digest 412 ci/sFb (A3s) February 1996**

**BRE  
BRE**



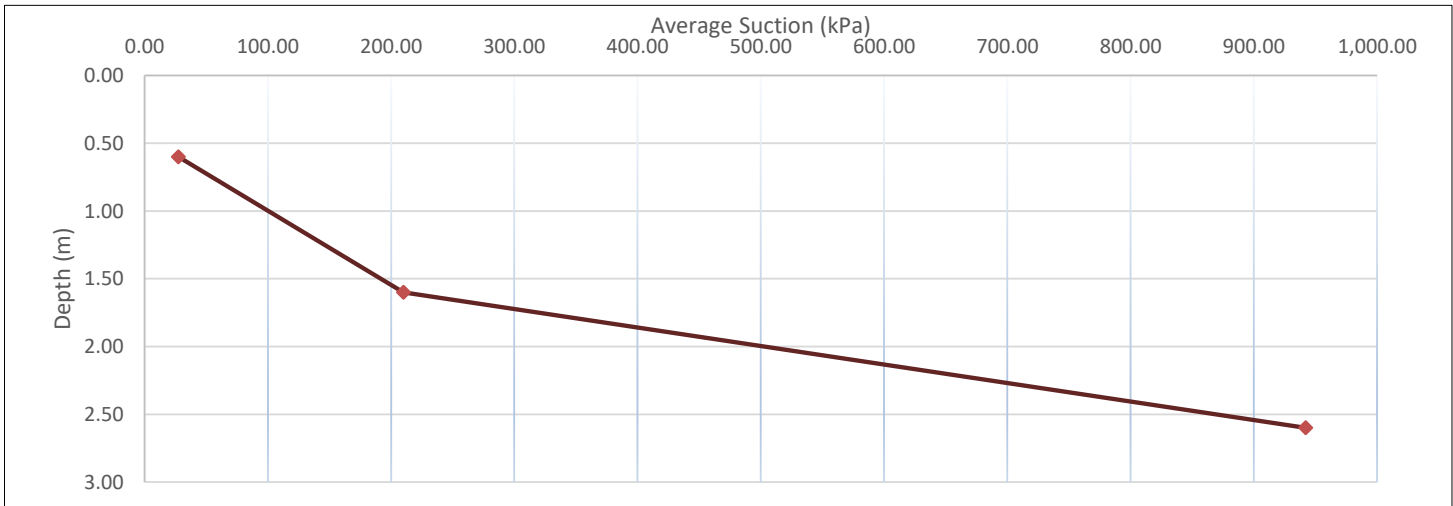
GSTL Contract Number	<b>57016</b>
Risk Address	<b>Unknown</b>
Auger Reference	<b>129960.1.2.RSS</b>
Remarks	D - Disturbed (Recompacted 2.5kg Rammer), U - Undisturbed Sample

TH Trial Hole	Depth (m)	Filter Paper Location	Filter Paper	Sample Prep Method	Test Duration (Days)	Water Content (%)	Soil Suction Pk (kPa)	Average Soil Suction Pk (kPa)	Cumulative Heave Potential (mm) from bottom of the hole
TH1	0.60	Top	I	D	5	72.4	27	27	11
TH1		Middle	II	D	5	72.4	27		
TH1		Bottom	III	D	5	72.3	28		
TH1	1.10								
TH1									
TH1									
TH1	1.60	Top	I	D	5	40.8	201	210	14
TH1		Middle	II	D	5	40.7	203		
TH1		Bottom	III	D	5	39.9	227		
TH1	2.10								
TH1									
TH1									
TH1	2.60	Top	I	D	5	30.1	931	942	14
TH1		Middle	II	D	5	30.0	948		
TH1		Bottom	III	D	5	30.0	946		

Heave potential is calculated from the bottom of the hole and heaves above the bottom of the hole are reported as a cumulative value.

The values reported for heave above only apply to the strata the suction and plasticity have been performed on. The shallowest depth reported is assumed to be a strata thickness to GL and Heave is calculated based on that layer thickness, if the next sample is in 0.5m increments the heave is calculated based on the layer thickness of 0.5m and depths 1m from the sample above will include heave over 1m.

Consideration should be made for other stratas where values are not reported and when working out the heave potential over the entire trial hole.



Test Operator	Checked	06/12/2021	Wayne Honey	<i>W. Honey</i>
Luke Williams	Approved	06/12/2021	Paul Evans	<i>P. Evans</i>

