



Geotechnical Testing Analysis Report



auger

environmental +
claims mgmt +
subsidence +
drainage +

Unit 3 & 4,
Heol Aur,
Dafen Ind Estate,
Dafen
Llanelli,
Carmarthenshire,
SA14 8QN

Auger House,
Cross Lane,
Wallasey,
Wirral,
CH45 8RH

Summary Of Claim Details

Policy Holder	Unknown
Risk Address	Unknown
SI Date	23/11/2020
Issue Date	23/11/2020
Report Date	15/12/2020
Auger Reference	113774.1.2.RSS
Insurance Company	Fairmead Insurance Limited
LA Claim Reference	9075732
LA Co. Reference	

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	Checked	15/12/2020	Wayne Honey	
	Approved	15/12/2020	Paul Evans	





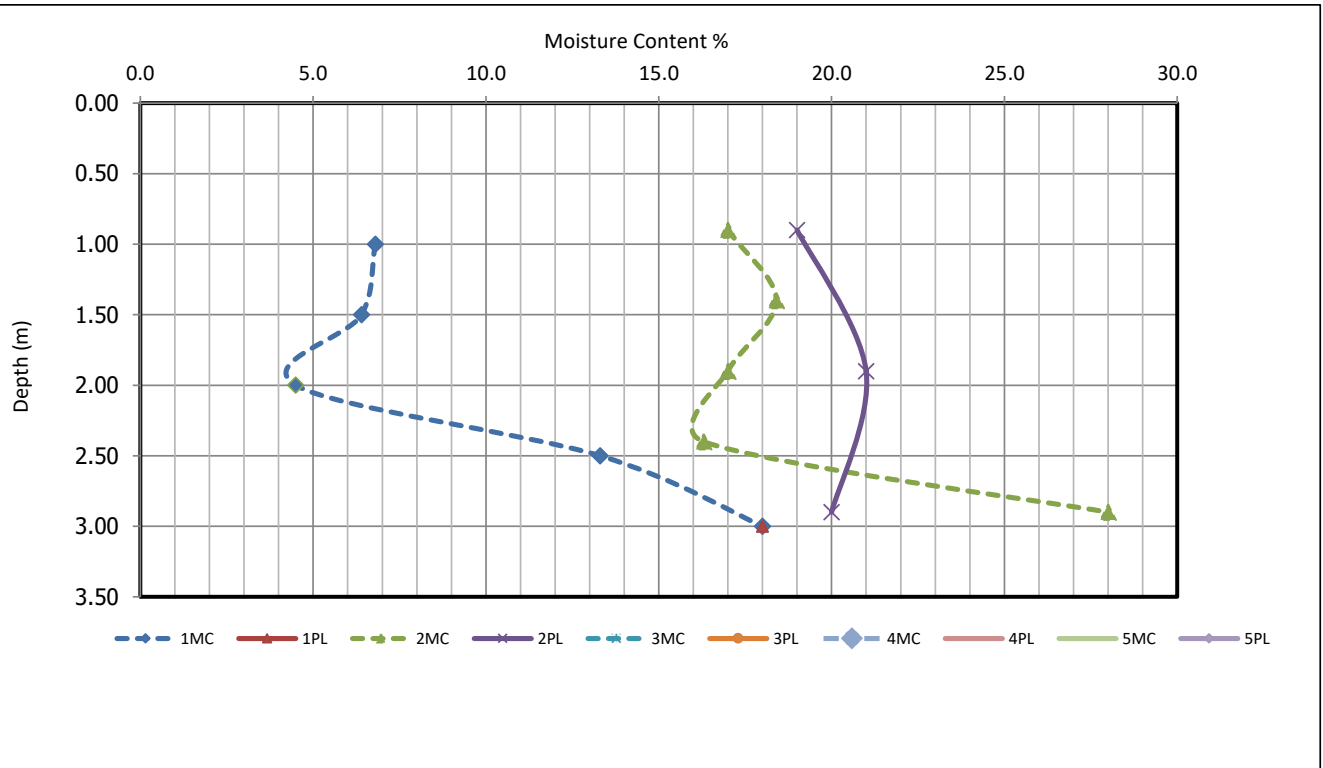
GSTL Contract Number	51480	
Risk Address	Unknown	
Auger Reference	113774.1.2.RSS	
Remarks	NP - (Non-Plastic), # - (Liquid Limit and Plastic Limit Wet Sieved)	

[illegible]

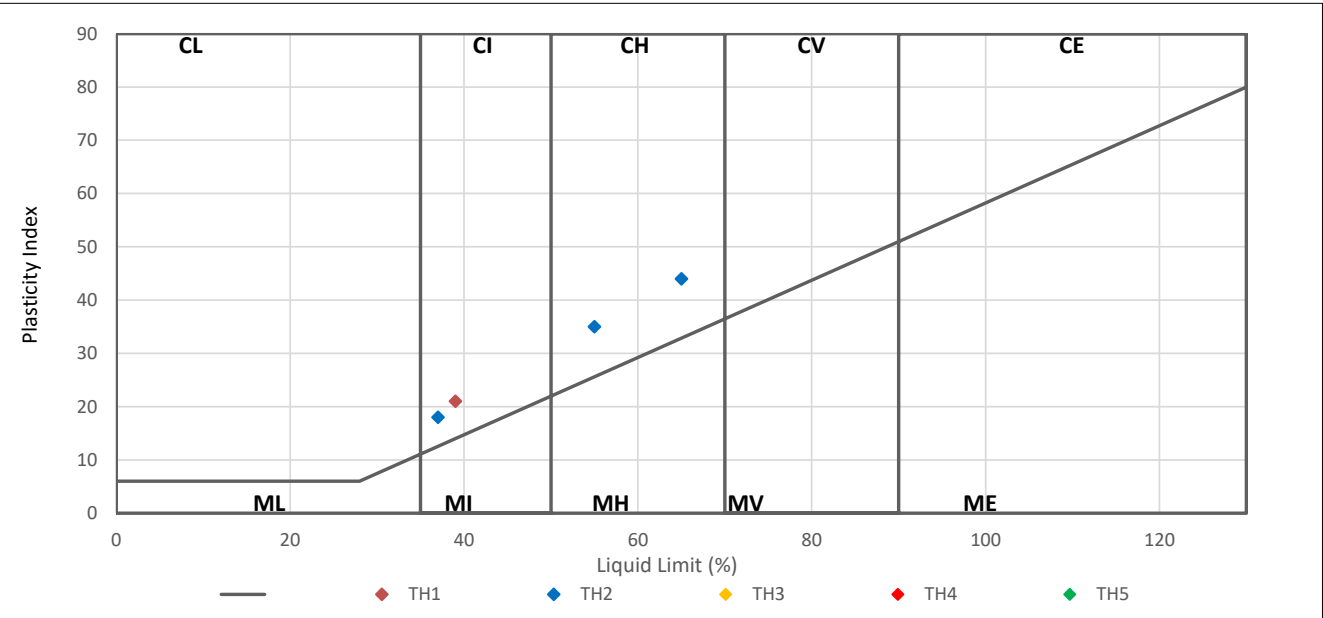
Modified Plasticity Index (PI) <10	: Non Classified
Modified PI = 10 to <20	: Low volume change potential (LOW VCP)
Modified PI = 20 to <40	: Medium volume change potential (Med VCP)
Modified PI = 40 or greater	: High volume change potential (HIGH VCP)

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	15/12/2020	Wayne Honey	<i>W. Honey</i>
Luke Williams	Approved	15/12/2020	Paul Evans	<i>P. Evans</i>



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



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Luke Williams	Approved	15/12/2020	Paul Evans	P. Evans





SUMMARY OF SOIL CLASSIFICATION TESTS,
Information Paper IP 4/93 February 1993 (CI/SfB p1),

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environmental +
claims mgmt +
subsidence +
drainage +

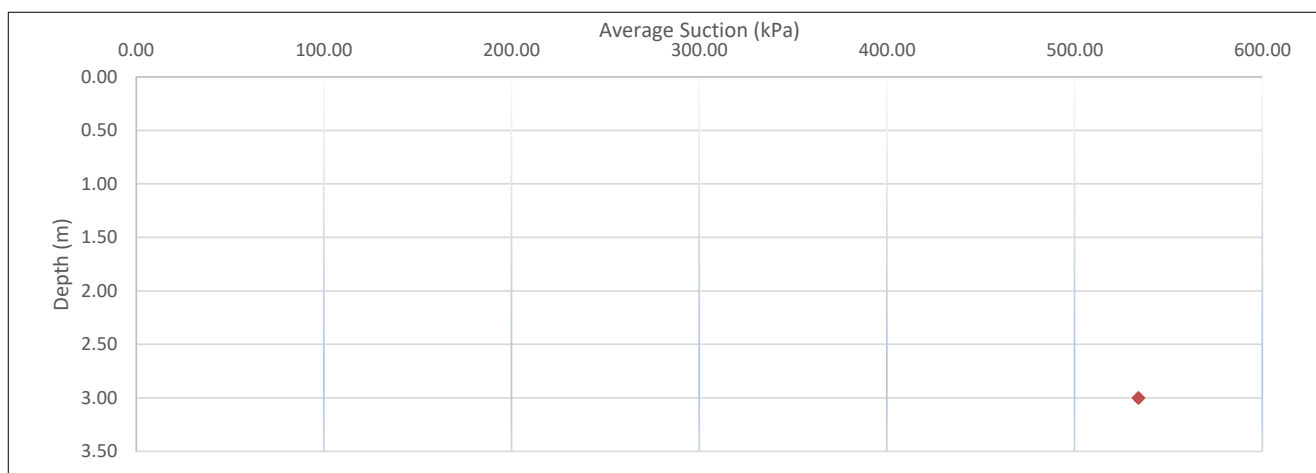
GSTL Contract Number	51480	
Risk Address	Unknown	
Auger Reference	113774.1.2.RSS	
Remarks	D - Disturbed (Recompacted 2.5kg Rammer), U - Undisturbed Sample	

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	1.00								
TH1									
TH1									
TH1	1.50								
TH1									
TH1									
TH1	2.00								
TH1									
TH1									
TH1	2.50								
TH1									
TH1									
TH1	3.00	Top	I	D	5	34.0	534	534	2
TH1		Middle	II	D	5	36.2	390		
TH1		Bottom	III	D	5	32.3	680		

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	15/12/2020	Wayne Honey	<i>W. Honey</i>
Luke Williams	Approved	15/12/2020	Paul Evans	<i>DP 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

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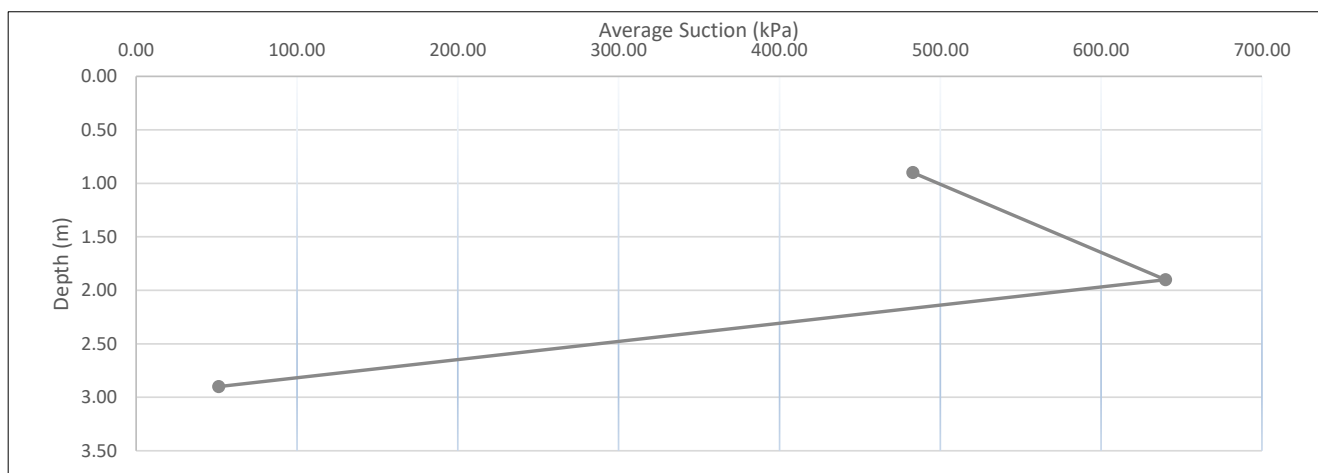
GSTL Contract Number	51480	
Risk Address	Unknown	
Auger Reference	113774.1.2.RSS	
Remarks	D - Disturbed (Recompacted 2.5kg Rammer), U - Undisturbed Sample	

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
TH2	0.90	Top	I	D	5	34.3	506	483	17
TH2	0.90	Middle	II	D	5	36.3	381		
TH2	0.90	Bottom	III	D	5	33.6	562		
TH2	1.40								
TH2	1.40								
TH2	1.40								
TH2	1.90	Top	I	D	5	32.4	671	640	13
TH2	1.90	Middle	II	D	5	34.0	528		
TH2	1.90	Bottom	III	D	5	31.9	720		
TH2	2.40								
TH2	2.40								
TH2	2.40								
TH2	2.90	Top	I	D	5	56.2	51	51.4	0
TH2	2.90	Middle	II	D	5	58.5	47		
TH2	2.90	Bottom	III	D	5	54.1	56		

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

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Luke Williams	Approved	15/12/2020	Paul Evans	<i>P. Evans</i>





Test Amendment Notice



51480

For the attention of (Auger)

Sample Reference	Sample Number	Sample Type	Depth		Amended Test	Reason For Testing Restriction	Possible Alternative Tests/Additional Notes
			Top	Bottom			
TH1			1.00			No cohesion	
TH1			2.00			No cohesion	

Sample Reference	Sample Number	Sample Type	Depth		Amended Test	Clients Response
			Top	Bottom		
TH1			1.00			
TH1			2.00			

Date Submitted

15/12/2020

Submitted By

Darren Bourne