

SOIL ANALYSIS

for Subsidence Management Services

8 Brookfield Park, London, NW5 1ER

Client: Subsidence Management Services
Client Contact: Cyril Nazareth
Claim Number: 102024304
Policy Holder: Mrs Inger Freeman
Report Date: 17 January 2018
Our Ref: C12492S38028
Laboratory Ref: L13269

Compiled By:
Checked By:



Date samples received: 9 January 2018
Moisture Content Test Date: 9 January 2018
Atterberg Limits Test Date: 11 January 2018

Note

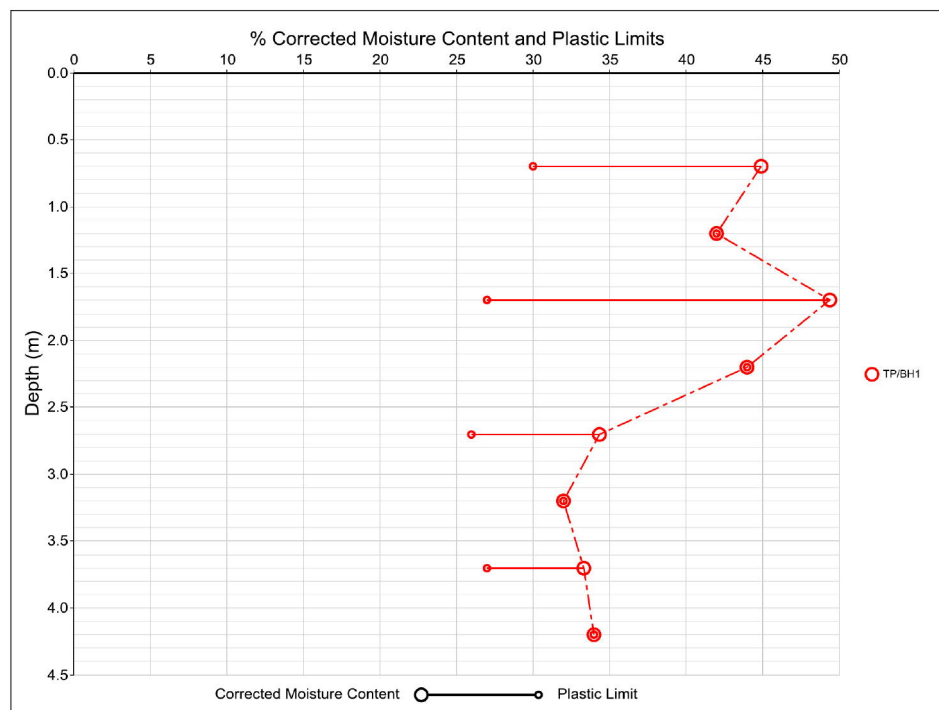
Where appropriate moisture contents have been corrected to demonstrate the equivalent moisture content following the sample being passed through a .425 mm sieve for comparison with the Liquid & Plastic Limit. Where this is not available, uncorrected moisture contents have been used in the graph on the following page.

Deviations to testing schedule:

All testing has been undertaken in line with the soils testing schedule provided

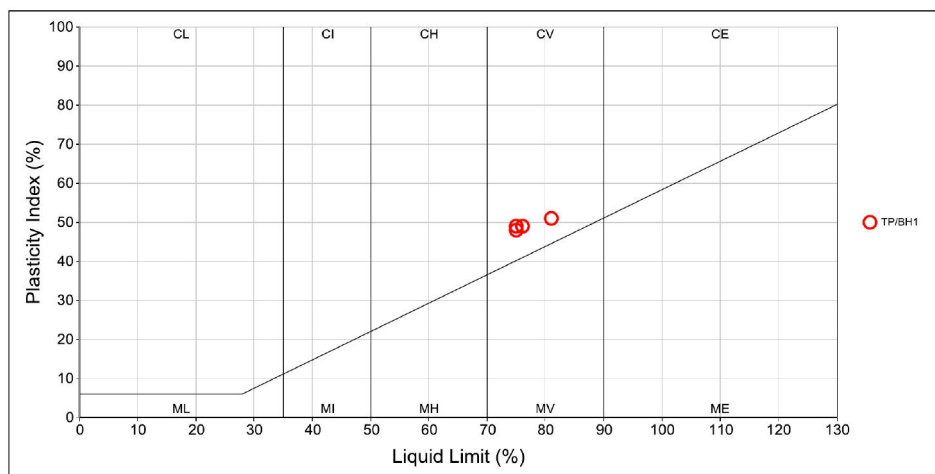
Lab Ref	Depth (m)	MC (%)	Corr MC (%)	LL (%)	PL (%)	PI (%)	% Passing .425mm
Samples from TP/BH1							
001	0.70	44	45	81	30	51	98
002	1.20	42					
003	1.70	44	49	76	27	49	89
004	2.20	44					
005	2.70	34	34	75	26	49	99
006	3.20	32					
007	3.70	33	33	75	27	48	99
008	4.20	34					

Corrected Moisture Content and Plastic Limits Graph



Lab Ref	Depth (m)	Description	BS:5930	NHBC Chapter 4.2
Samples from TP/BH1				
001	0.70	Very soft brown mottled CLAY with rare gravel and sand. Gravel is fine	CV	High
002	1.20	Very soft brown mottled CLAY with rare gravel and sand. Gravel is fine and medium.		
003	1.70	Very soft brown mottled slightly gravelly CLAY with rare sand. Gravel is fine	CV	High
004	2.20	Very soft brown mottled CLAY with rare gravel and sand. Gravel is fine		
005	2.70	Soft brown mottled CLAY with rare gravel and sand. Gravel is fine	CV	High
006	3.20	Soft brown CLAY with rare gravel and sand. Gravel is fine		
007	3.70	Soft brown slightly sandy CLAY with rare gravel. Gravel is fine	CV	High
008	4.20	Soft to firm brown CLAY with rare gravel and sand. Gravel is fine		

Plasticity Chart for Casagrande Classification



Notes relating to soils testing

Unless otherwise stated, all soils testing was undertaken at Environmental Services' soils laboratory at unit 10H Maybrook Business Park, B76 1AL.

Soil samples have been prepared in accordance with BS1377:Part 1: 2016 Section 7

Descriptions of soil samples within the laboratory have been undertaken generally in accordance with BS5930:2015

Following the issue of this soil analysis report, samples will be retained for at least 28 days should additional testing, or referencing, be required. It should be noted that any tests undertaken on soils retained subsequent to the issue of this report may not give an accurate indication of the in-situ conditions of the sample.

Water Content Tests are undertaken in accordance with ISO 17892:Part 1:2014

The Liquid Limit test is undertaken in accordance with BS1377:Part 2:1990 Section 4.4

The Plastic Limit test and the determination of the Plasticity Index is undertaken in accordance with BS1377:Part 2:1990 Section 5

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References and Interpretation

The following provides a brief interpretation of the test results by comparison of the results to published classifications. The Atterberg Limit test may be used to classify the plasticity of soils; the plasticity classes defined in BS5930:1999 "Code of Practice for Site Investigations" are as follows.

CL (ML)	CLAY and CLAY/SILT of Low plasticity
CI (MI)	CLAY and CLAY/SILT of Intermediate plasticity
CH (MH)	CLAY and CLAY/SILT of High plasticity
CV (MV)	CLAY and CLAY/SILT of Very High plasticity
CE (ME)	CLAY and CLAY/SILT of Extremely High plasticity
O	The letter O is added to prefixes to symbolise a significant proportion of organic matter.
NP	Non-plastic

The Plasticity Index (PI) Result obtained from the Atterberg Limit tests may also be used to classify the potential for volume change of fine soils, in accordance with the National House Building Council's standards - Chapter 4.2 (2003) "Building Near Trees", as summarised below.

Modified PI < 10	Non Classified.
Modified PI = 10 to <20	Low volume change potential.
Modified PI = 20 to <40	Medium volume change potential.
Modified PI = 40 or greater	High volume change potential.

The 2003 edition of Chapter 4.2 also permits use of the Plasticity Index without modification. The classifications for this are grouped by soil type (soils with similar visual soils description and using unmodified Plasticity Indices.