

Factual Report



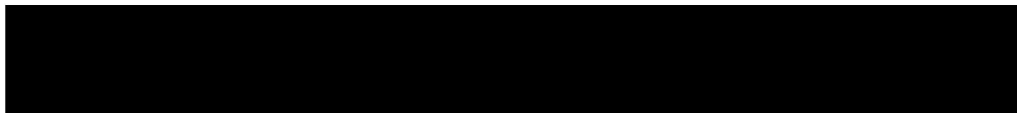
Site	Flats 3 19 Woodchurch Road London NW6 3PL
Client	Wates
Date	02.02.17
Our Ref	[REDACTED]

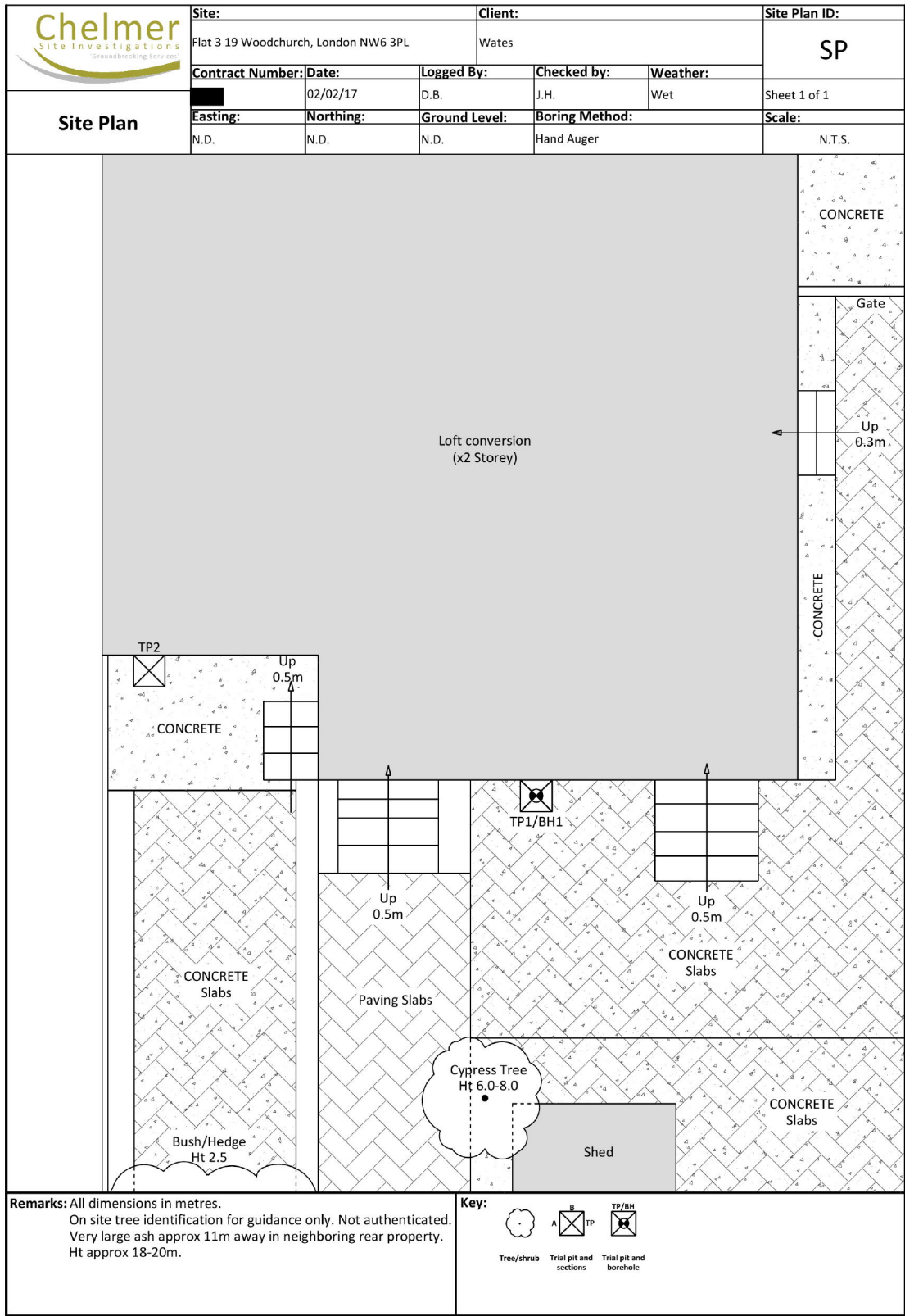



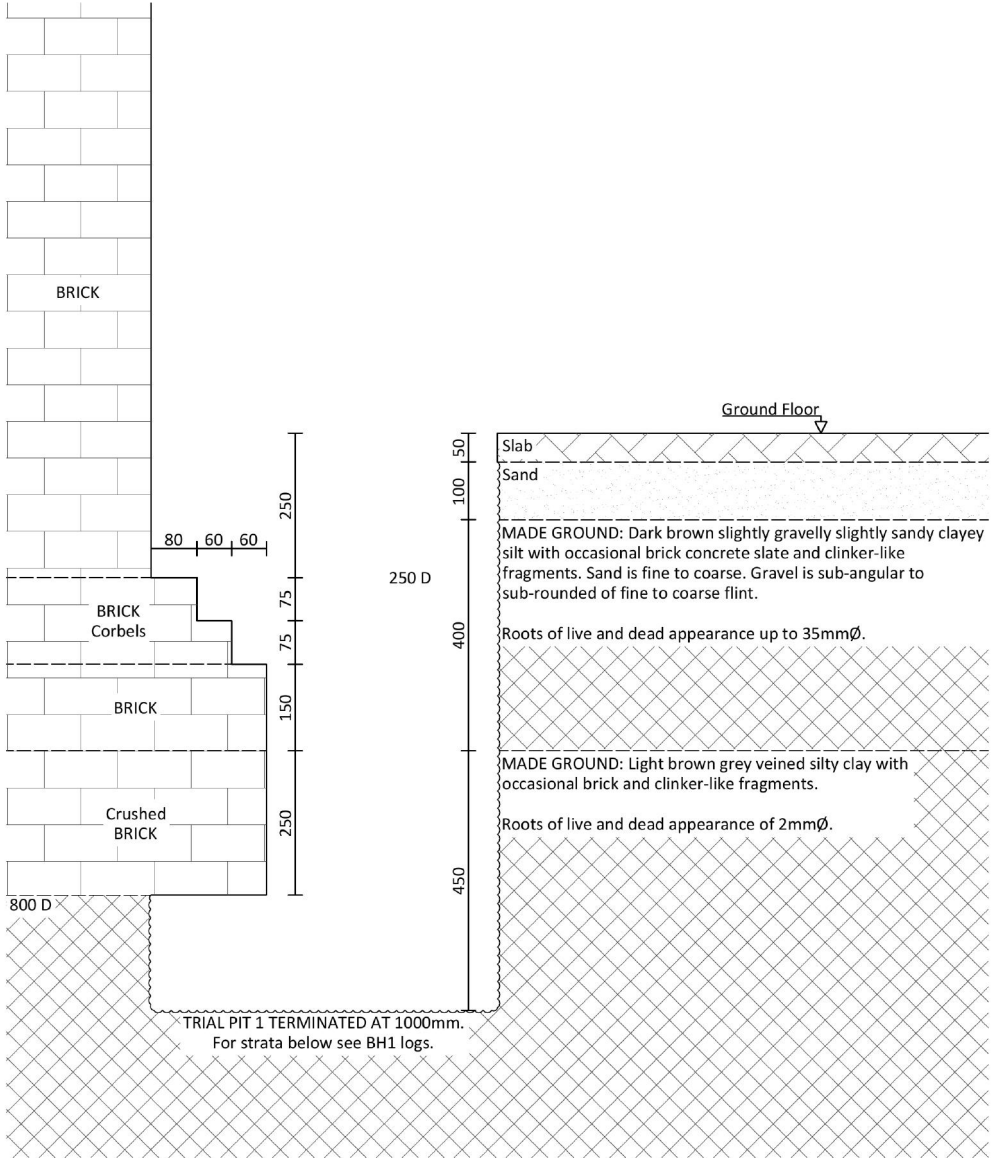


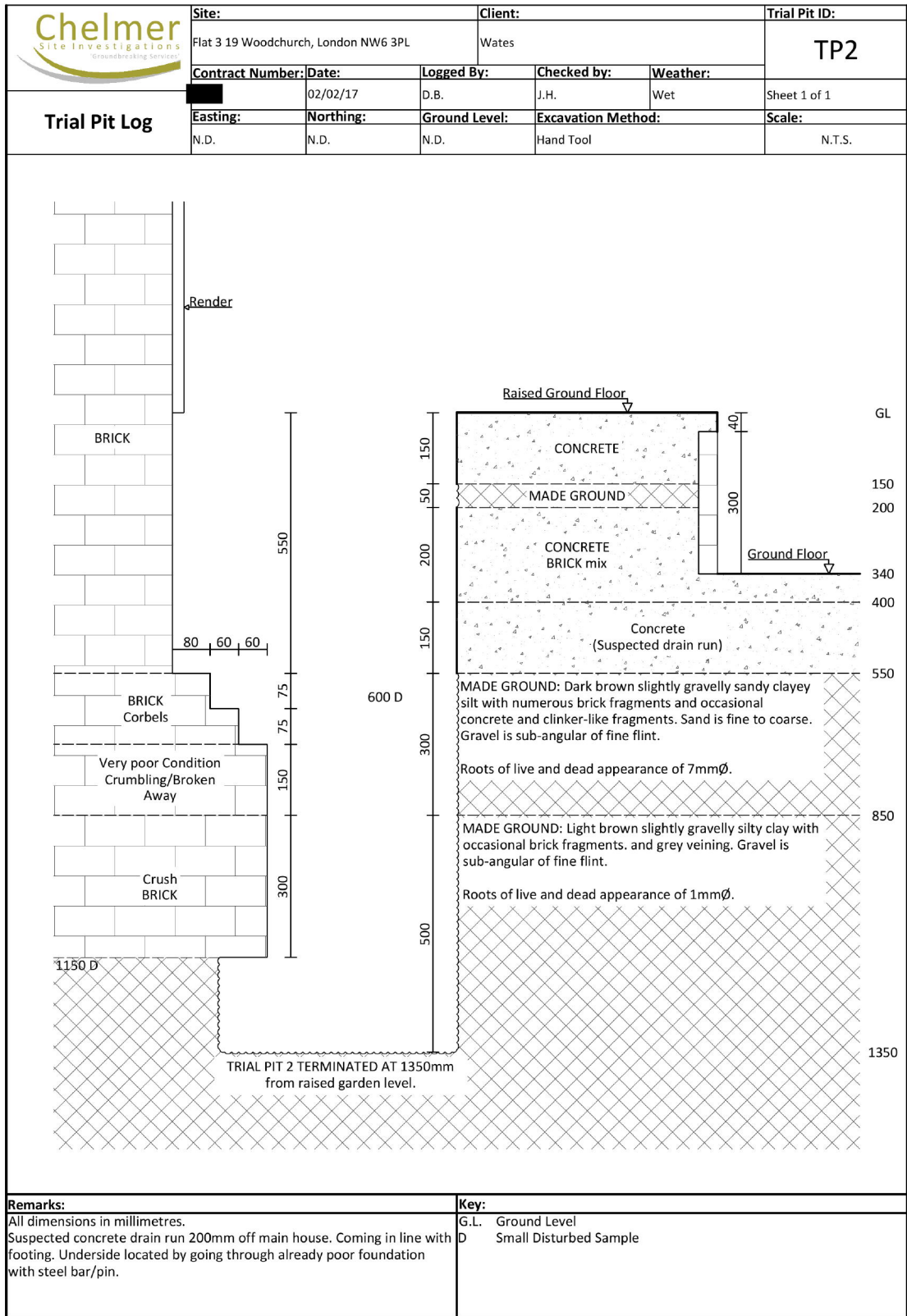
FACTUAL REPORT CONTENT

- 1.0 SITE PLAN
- 2.0 TRIAL PIT SECTION DRAWINGS / BOREHOLE LOGS
- 3.0 ROOT IDENTIFICATION
- 4.0 GEOTECHNICAL SOIL TESTING RESULTS
- 5.0 REPORT NOTES





















	Site:		Client:		Trial Pit ID:	
	Flat 3 19 Woodchurch, London NW6 3PL		Wates		TP1	
	Contract Number:	Date:	Logged By:	Checked by:	Weather:	
		02/02/17	D.B.	J.H.	Wet	Sheet 1 of 1
	Easting:	Northing:	Ground Level:	Excavation Method:	Scale:	
Trial Pit Log	N.D.	N.D.	N.D.	Hand Tools	N.T.S.	
	<div></div>					
Remarks:			Key:			
All dimensions in millimetres.						



Remarks: All dimensions in millimetres. Suspected concrete drain run 200mm off main house. Coming in line with footing. Underside located by going through already poor foundation with steel bar/pin.	Key: G.L. Ground Level D Small Disturbed Sample
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			Site: Flat 3 19 Woodchurch, London NW6 3PL			Client: Wates			Borehole ID: BH1		
			Contract Number: [REDACTED]	Date: 02/02/17	Logged By: D.B.	Checked by: J.H.	Weather: Wet	Sheet 1 of 1			
			Borehole Log		Easting: N.D.	Northing: N.D.	Ground Level: N.D.	Boring Method: Hand Auger	Scale: N.T.S.		
Samples & In Situ Testing			Strata Details							Roots and Groundwater	
Depth (m)	Sample	Test Result	Depth (m)	Thickness (m)	Legend	Strata Description			Roots Information	Groundwater (m)	
GL			GL	0.05		Slab			Roots of live and dead appearance of 1mmØ to 2.0m.		
			0.05	0.10		Sand					
			0.15	0.40		MADE GROUND: Dark brown slightly gravelly slightly sandy clayey silt with occasional brick concrete slate and clinker-like fragments. Sand is fine to coarse. Gravel is sub-angular to sub-rounded of fine to coarse flint.					
			0.40	0.55		MADE GROUND: Light brown grey veined silty clay with occasional brick and clinker-like fragments.					
			0.55	0.45							
1.00	D	V 66 68	1.00			Firm yellow-brown silty CLAY with rare pockets of fine orange sand and occasional grey veining.			Hair-like and Fibrous roots observed to 2.5m.		
1.50	D	V 74 80			becoming stiff from 1.5m.					
2.00	D	V 84 88									
2.50	D	V 98 104									
3.00	D	V 108 114									
3.50	D	V 120 126							No roots observed below 2.5m.		
4.00	D	V 130+ 130+									
4.50	D	V 130+ 130+			becoming stiff from 4.5m.					
5.00	D	V 130+ 130+	5.00								
						BOREHOLE TERMINATED AD 5.1					
Remarks: Borehole dry and open on completion. Rare brick fragments observed in samples at 1.0m and 2.0m due to intermixing.						Key: D Small Disturbed Sample GL Ground Level V Pilcon Vane (kPa)					

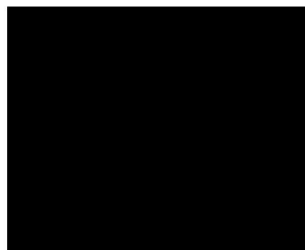


Root identification
Vegetation surveys
Tree/Building investigations
Plant taxonomy

Richardson's Botanical Identifications

Dr Ian B K Richardson
BSc, PhD, CBiol, MiBiol, MiHort, FLS
James Richardson
BSc (Hons. Biology)

Chelmer Site Investigations



21/03/2017

Dear Sirs

19 Woodchurch Road, London

The samples you sent in relation to the above have been examined. The structure was referable as follows:

TP/BH1, 800-2000mm

1 root: the family VITACEAE (Vitis (Grape-Vine), Parthenocissus (Virginia Creeper etc.)).
Dead*.

1 root: FRAXINUS (Ash). 3 further samples, not examined in detail appeared similar under low magnification. Alive, recently*.

1 root: an unidentified SHRUB. Please send us twigs from nearby bushes if this is critical - we may be able to give you a match. A further sample, not examined in detail appeared similar under low magnification. Alive, recently*.

1 root: too DECAYED for identification.

2 samples: microscopic examination of both showed insufficient cells for recognition.

TP2, 1150mm

1 root: FRAXINUS (Ash). This was a very IMMATURE sample. A further sample, not examined in detail appeared similar under low magnification. Dead* (note this 'dead' result can be unreliable with such thin samples).

2 samples: microscopic examination of both 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.

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

Report commissioned by





Laboratory Report



Site Flat 3 19 Woodchurch Road, London, NW6 3PL

Client Wates

Date 27-Feb-17





Content Summary

This report contains all test results as indicated on the test instruction/summary.



For the attention of : Wates

- This report comprises of the following :
- 1 Cover Page
 - 1 Inside Cover/Contents Page
 - 1 Pages of Results
 - 1 Moisture/Shear Strength Chart
 - 1 Plasticity Chart
 - 1 Moisture/Soil Suction Chart
 - 1 Limitations of Report Page

Notes :

General

Please refer to report summary notes for details pertaining to methods undertaken and their subsequent accreditations

Samples were supplied by Chelmer Site Investigations

All tests performed in-house unless otherwise stated

Deviant Samples

Samples were received in suitable containers	Yes
A date and time of sampling was provided	Yes
Arrived damaged and/or denatured	No

88.1377 : 1990



Job Number : [REDACTED]
Client : [REDACTED]

Job Number : XXXXXXXXXX
Client : **Wates**
Client Reference : XXXXXXXXXX

Client : Wates
Client Reference : XXXXXXXXXX
Site Name : Flat 3 19 Woodchurch Road, London, NW6 3PL

Data Received: 06/02/2013

Date Received : 06/02/2017
Date Testing Started : 24/02/2017

Date Testing Started : 24/02/2017
Date Testing Completed : 27/02/2017
Laboratory Used : Chelmer Geotechnical, CM3 8AB

[illegible]

Notes to:	*UKAS Accredited Tests
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[1] BS 1377 : Part 2 : 1990, Test No 3.2

[3] BS 1377 : Part 2 : 1990, Test No 4.4

[6] BRE Digest 240 : 1993

[7] BS 5930 : 1981 : Figure 31 - Plasticity Chart for the classification of fine soils

(8) In-house method 50a submitted from BBE ID 4103

[9] Values of shear strength were determined in situ by Chelmer Site Investigations using a Pilcon hand vane or Geonor vane (GV).

[10] BS 1377 : Part 3 : 1990, Test No 4
[11] BS 1377 : Part 2 : 1990, Test No 9

[12] BS 1377 : Part 3 : 1990, Test No 5.6

$$113190 = 1.2 \times 90$$

[14] BRE Special Digest One (Concrete in Aggressive Ground) 2005

Note that if the SO_4 content falls into the DS-4 or DS-5 class, it would be prudent to consider the sample as falling into the DS-4m or DS-5m class respectively unless water soluble magnesium testing is undertaken to prove otherwise

	K _{sp}
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D - Disturbed sample

B - Bulk sample

U = U100 (undisturbed sample)

[illegible]

W - Water sample

ENP - Essentially Non-Plastic.

US - Underside Foundation



Comments :

Technician : SC

Checked & Authorised By:

Martyn Graham Senior Laboratory Manager
Chelmer Site Investigation Laboratories Ltd

Date Checked :- 27/02/2017

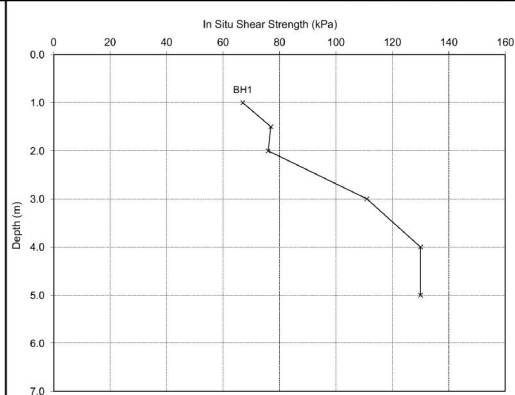
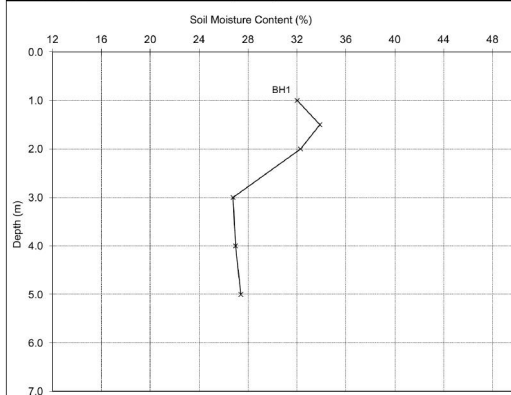
Laboratory Testing Results

Moisture Content/Shear Strength Profile



Job Number :
Client : Wates
Client Reference :
Site Name : Flat 3 19 Woodchurch Road, London, NW6 3PL

Date Received : 06/02/2017
Date Testing Started : 24/02/2017
Date Testing Completed : 27/02/2017
Laboratory : Chelmer Geotechnical Laboratories, CM3 8AB



Notes :-
1. If the Soil Fraction > 0.425mm exceeds 5% the Equivalent Moisture Content of the remainder (calculated in accordance with BS 1377: Part 2: 1990, cl 3.2.4 note 1) is also plotted and the alternative profile additionally shown as an appropriately coloured broken line.
2. If plotted, 0.4 LL and PL*2 (after Driscoll, 1983) should only be applied to London Clay (and similarly over consolidated clays) at shallow depths.

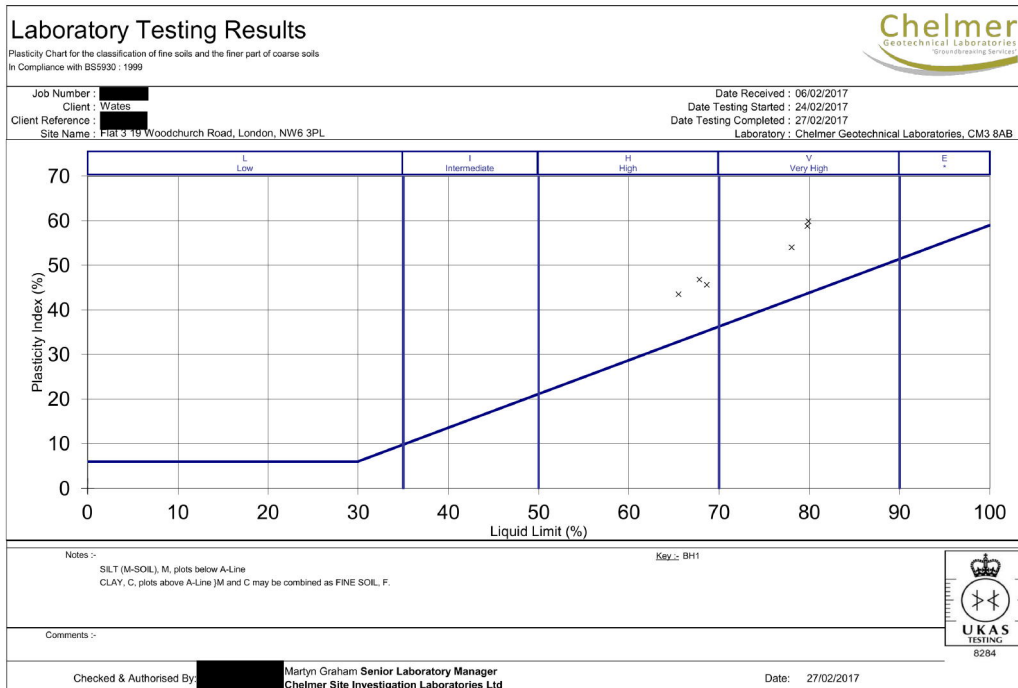
Unless otherwise stated, values of Shear Strength were determined in situ by Chelmer Site Investigations using a Picon Hand Vane the calibration of which is limited to a maximum reading of 140 kPa. (Not UKAS accredited)



Comments :-

Checked & Authorised By :
Martyn Graham Senior Laboratory Manager
Chelmer Site Investigation Laboratories Ltd

Date: 27/02/2017





This report is personal to the client, confidential and non assignable. It is issued with no admission of liability to any third party.

This report shall not be reproduced, except in full, without the written approval of Chelmer Site Investigations Laboratories Ltd.

Where our involvement consists exclusively of testing samples, the results and comments (if provided) relate only to the samples tested.

Any samples that are deemed to be subject to deviation will be recorded as such within the test summary.

REPORT NOTES

Equipment Used

Hand tools, Mechanical Concrete Breaker and Spade, Hand Augers, 100mm/150mm diameter Mechanical Flight Auger Rig, GEO205 Flight Auger Rig, Window Sampling Rig, and Large or Limited Access Shell & Auger Rig upon request and/or access permitting.

On Site Tests

By Pilcon Shear-Vane Tester (kN/m²) in clay soils, and/or Mackintosh Probe in granular soils or made ground and/or upon request Continuous Dynamic Probe Testing and Standard Penetration Testing.

Note:

Details reported in trial-pits and boreholes relate to positions investigated only as instructed by the client or engineer on the date shown.

We are therefore unable to accept any responsibility for changes in soil conditions not investigated i.e. variations due to climate, season, vegetation and varying ground water levels.

Full terms and conditions are available upon request.