SITE INVESTIGATION
FACTUAL REPORT

Report No: [redacted]

Client: Sedgwick International UK - Maidstone

Site: 63A Bellsize Lane

Client Ref: [redacted]

Date of Visit: 19/12/18

[redacted]

Investigation Layout Plan

Sheet: 1 of 1

Job No: [redacted]

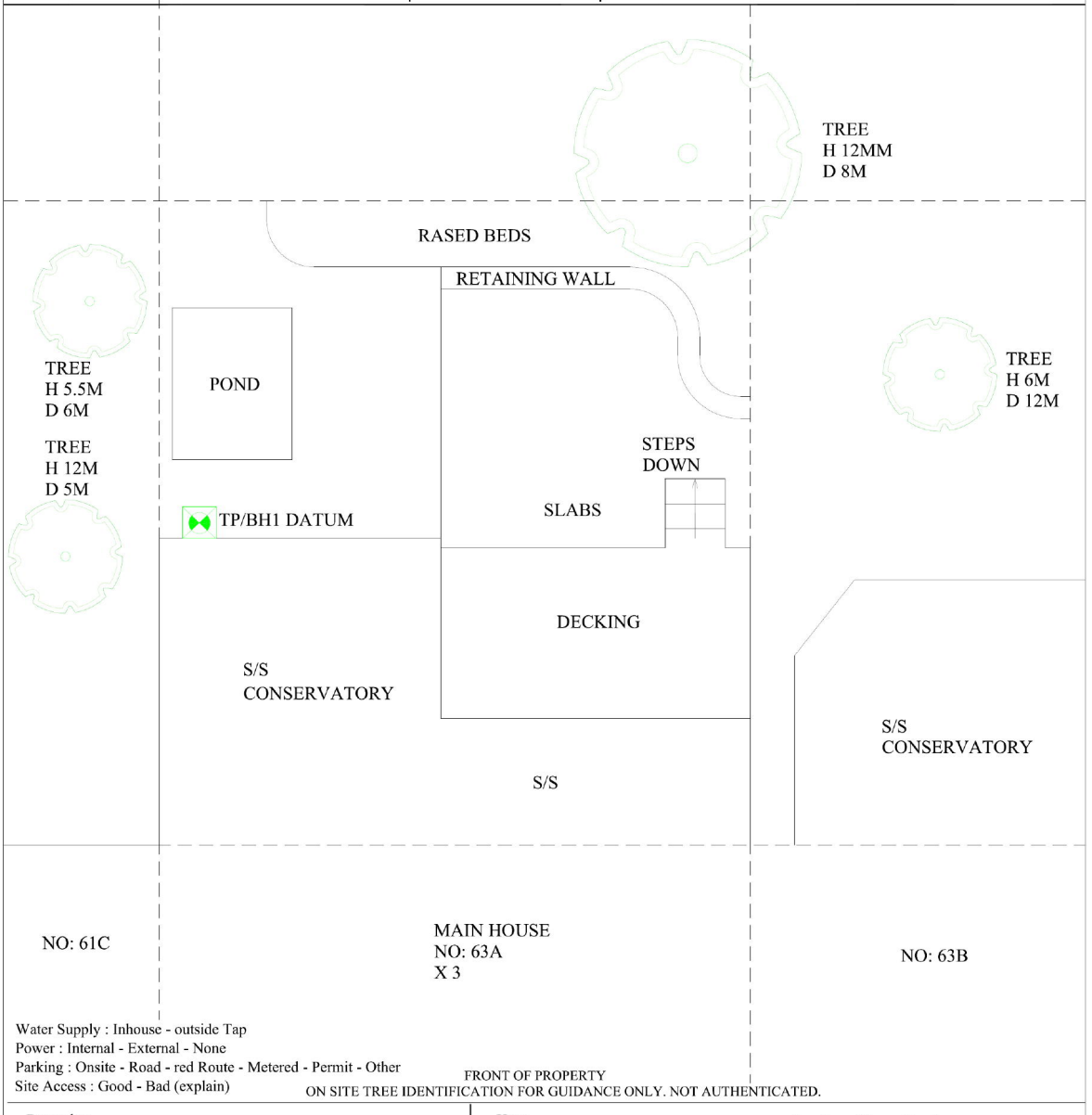
Date: 19/12/2018

Site: 63 A Belsize Lane NW3

Work carried out for: Sedgwick International UK

Weather: DRY

(SI) SA (Checked) CFT (Drawn)



Water Supply : Inhouse - outside Tap
Power : Internal - External - None
Parking : Onsite - Road - red Route - Metered - Permit - Other
Site Access : Good - Bad (explain)

FRONT OF PROPERTY

ON SITE TREE IDENTIFICATION FOR GUIDANCE ONLY. NOT AUTHENTICATED.

Remarks:

Scale: N.T.S.

Key:

Combined Gulley	RWWG
Manhole	MH
Rain Water Pipe	RWP
Rain Water Gulley	RWG
Soil Vent Pipe	SVP
Waste Gulley	WG
Waste Pipe	WP

Surface Water Drain

Foul Water Drain

Tree / Bush (approx. ht in m)

Trial Pit

Borehole

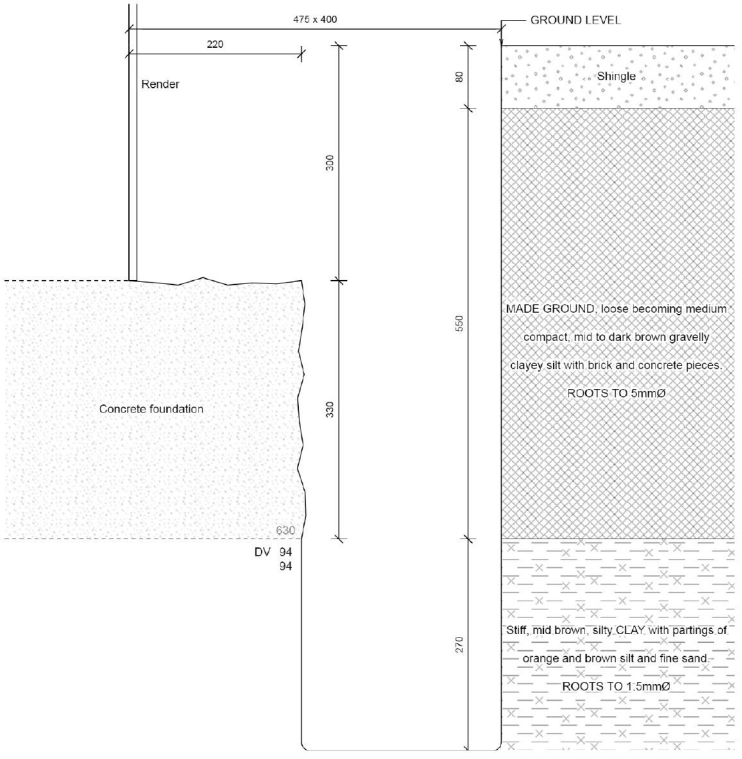
O/D - Open Discharge

PROPERTY ASSURANCE
Giving our all

TEST REPORT: **Trial Pit**

REPORT NUMBER: [redacted]

TRIAL PIT REF:	TP1	DATE:	14/01/2019
CLIENT:	Sedgwick International UK	SITE:	63a Belsize Lane NW3 5AU
JOB NO:	[redacted]	WEATHER:	Dry
EXCAVATION METHOD:	Hand tools		



For Strata below 900mm see Bore Hole log

Key:

D	Small disturbed sample	J	Jar sample
B	Bulk disturbed sample	V	Pilcon vane (kPa)
W	Water sample	M	Mackintosh probe
TDTD	Too dense to drive		

Remarks:

For and on behalf of CET
Mark Duffield - SI
[redacted]

Approved Signatory
14-Jan-19

Report Format:

[redacted]

[redacted]

[redacted]

Borehole	1		Sheet:	1 of 1	Site:	63A Bellsize Lane
			Job No:	[redacted]		
			Date:	19/12/2018		
Boring Method:	Hand Auger		Ground Level:		Client:	Sedgwick International UK - Maidstone
Diameter (mm):	75	Weather:	dry			

Depth	Soil Description	Thickness	Legend	Samples and Tests		
(m)				Depth	Type	Result
0.00	See Trial Pit	0.90				
0.90	Stiff brown silty CLAY with partings of orange and brown silt and fine sand	0.60		1.00	DV	110
						114
1.50	Stiff brown silty CLAY with partings of orange and brown silt and fine sand and stone nodules	3.50		1.50	DV	130+
						130+
				2.00	DV	130+
						130+
				2.50	DV	130+
						130+
				3.00	DV	130+
						130+
				3.50	DV	130+
						130+
				4.00	DV	130+
						130+
				4.50	DV	130+
						130+
				5.00	DV	130+
5.00	End of BH					130+

Remarks:
BH ends at 5m.BH dry and open on completion,no roots observed below 3.2m.Datum installed at 5m.

Key:
D - Disturbed Sample
B - Bulk Sample
W - Water Sample
J - Jar Sample
V - Pilcon Shear Vane (kPa
M - Mackintosh Probe
TDTD - Too Dense To Drive

Roots
Roots
Roots
Depth to Water (m)

To Depth (m)	Max Dia (mm)
2.20	2
3.00	1
3.20	and fibr

Logged:	MR	SA	Checked:	Approved:	Version	V1.0 28/01/16	N.T.S.

Laboratory Summary Results

Our Ref : [redacted]

Date Sampled: 19/12/18

Location : 63A, Bellsize Lane, London

Date Received : 20/12/18

Client: Sedgwick International UK - Maidstone

Date Tested : 21/12/18

Address: [redacted]

Date of Report : 20/12/18

Sample Ref TP/BH No	Sample Ref Depth (m)	Type	Moisture Content (%) [1]	Soil Fraction > 0.425mm (%) [2]	Liquid Limit (%) [3]	Plastic Limit (%) [4]	Plasticity Index (%) [5]	Liquidity * Index [5]	Modified * Plasticity Index (%) [6]	Soil * Class [7]	Filter Paper Contact Time (h)	Soil Sample Suction (kPa) [8]	Oedometer Strain [9]	Estimated Heave Potential (Dd) (mm)[10]	In situ * Shear Vane Strength (kPa) [11]	Organic * Content (%)[12]	pH * Value [13]	Sulphate Content * (g / l) SO_3 [14]	Sulphate Content * (g / l) SO_4 [15]	* Class [16]
1	U/S 0.63	D	28	<5	70	27	43	0.03	43	CV	168	251			94					
	1.0	D	33	<5											112					
	1.5	D	27	<5	74	25	49	0.03	49	CV	168	494			> 130					
	2.0	D	29	<5											> 130					
	2.5	D	32	<5	78	30	48	0.04	48	CV	168	293			> 130					
	3.0	D	31	<5											> 130					
	3.5	D	31	<5	73	26	47	0.11	47	CV	168	437			> 130					
	4.0	D	30	<5											> 130					
	4.5	D	32	<5							168	357			> 130					
	5.0	D	30	<5							168	393			> 130					

Test Methods / Notes

[1] BS 1377 : Part 2 : 1990, Test No 3.2

[2] Estimated if <5%, otherwise measured

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

[4] BS 1377 : Part 2 : 1990, Test No 5.3

[5] BS 1377 : Part 2 : 1990, Test No 5.4

[6] BRE Digest 240 : 1993

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

[9] In-house method S9a adapted from BRE IP 4/93

[9] In-house Test Procedure S17a: One Dimensional Swell/Strain Test

[10] Estimated Heave Potential (Dd)

[11] Values of shear strength were determined in situ by CET using a Pilcon hand vane or Geonor vane (GV).

[12] BS 1377 : Part 3 : 1990, Test No 4

[13] BS 1377 : Part 2 : 1990, Test No 9

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

[15] $SO_4 = 1.2 \times SO_3$

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

Note that if the SO4 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.

* These tests are not UKAS accredited

Full reports can be provided upon request.

Key

D	Disturbed sample (small)
B	Disturbed sample (bulk)
U	Undisturbed sample
W	Groundwater sample
FNP	Essentially Non-Plastic by inspection
U/S	Underside of Foundation

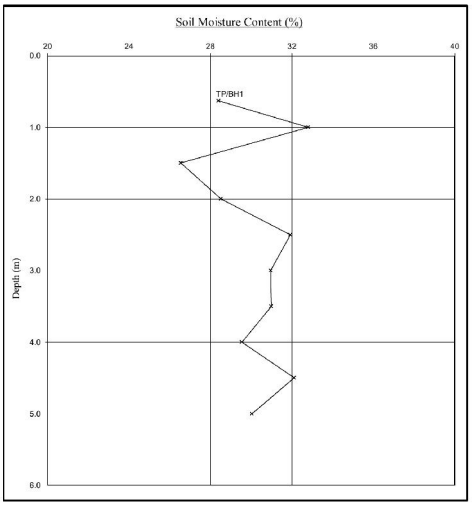
[redacted]

Version: 5BH V1.5 - 26.06.18

8618

Moisture Content Profiles

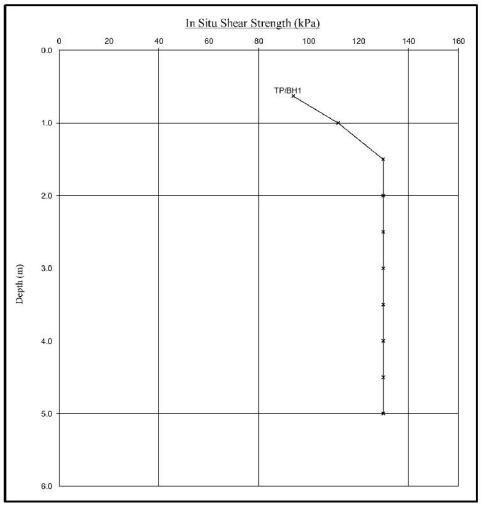
Our Ref : [redacted]
Location : 63A, Bellsire Lane, London
Work carried out for: Sedgwick International UK - Maidstone



Notes
1. If plotted, 0.4 I.L and Pl. / 2 (after Driscoll, 1983) should only be applied to London Clay (and similarly overconsolidated clay) at shallow depths.
2. Unless specifically noted the profiles have not been related to a site datum.

Shear Strength Profiles

Date Sampled : 19/12/18
Date Received : 20/12/18
Date Tested : 21/12/18
Date of Report : 20/12/18



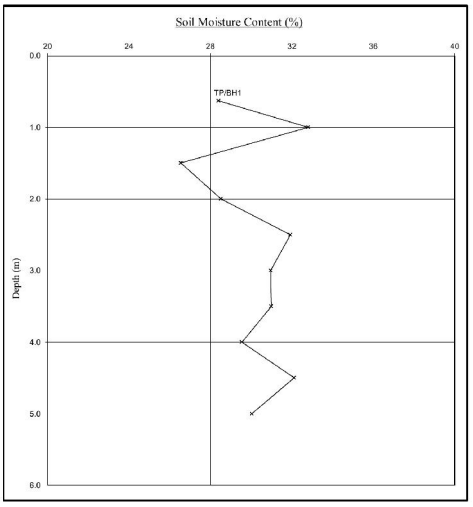
Note
1. Unless otherwise stated, values of Shear Strength were determined in situ by CET using a Pilcon Hand Vane the calibration of which is limited to a maximum reading of 130 kPa.
2. Unless specifically noted the profiles have not been related to a site datum.

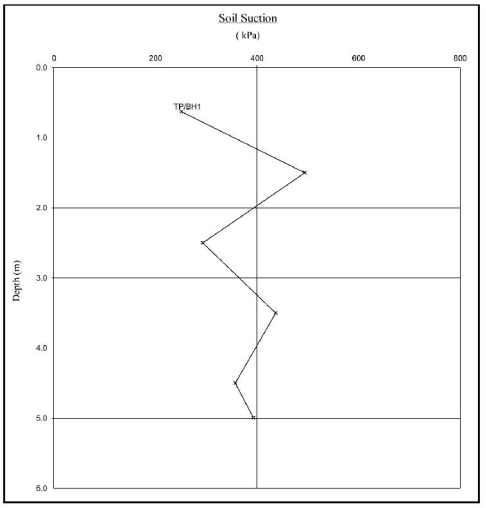
Moisture Content Profiles

Soil Suction Profiles

Our Ref : [redacted]
Location : 63A, Bellsize Lane, London
Work carried out for: Sedgwick International UK - Maidstone

Date Sampled : 19/12/18
Date Received : 20/12/18
Date Tested : 21/12/18
Date of Report : 20/12/18





Notes
1. If plotted, 0.4 I.L and PI. / 2 (after Driscoll, 1983) should only be applied to London Clay (and similarly overconsolidated clay) at shallow depths.
2. Unless specifically noted the profiles have not been related to a site datum.

Note
When shown, the theoretical equilibrium suction profiles are based on conventional assumptions associated with London Clay (and similarly overconsolidated clays) at shallow depths. Note that the sample disturbance component is dependant on the method of sampling and any subsequent recompaction. The above plots show this to be 100kPa which is the value suggested by the BRE on the basis of their limited number of tests on recompacted samples. This may or may not be appropriate in this instance and judgement should be exercised.

EPSL ***European Plant Science Laboratory***	Sheet: 1 of 1 Job No: [redacted] Date: **08/01/2019** Order No: [redacted] EPSL Ref: [redacted]	Site: **63a Belsize Lane, NW3** Work carried out for: **Sedgwick International UK**

Certificate of Analysis

The following work was commissioned by CET on behalf of their client. Root samples were obtained in sealed packets from the above site with no reference given as to the types of tree or shrub from which they may have originated.
The results were as follows -

Trial pit/ Borehole number	**Root diameter (mm)**	**Tree, shrub or climber from which root originates**	**Result of starch test**
TP1 (USF)	1.5 mm	Populus spp. † 4 roots	Positive
BH1 (to 3m)	1.5 mm	Populus spp. † 4 roots	Positive

Populus spp. are poplars and aspens.

† EPSL research has developed a unique ability to differentiate Willows from Poplars. We believe no other laboratory in the UK can currently provide this service. We now offer this benefit at no extra cost.

[redacted]

RJS

[redacted]

Head of Laboratory Services : M D Mitchell B.Sc. (Hons), M.Phil.
Plant Anatomist : Dr G S Turner B.Sc. (Hons), M.Sc., Ph.D
Plant Anatomist : Dr R J Shaw B.Sc. (Hons), Ph.D
Consultant: Dr M P Denne B.Sc. (Hons), M.Sc., Ph.D

[redacted]