

Our ref:

PRC/sg/P6687

Merlin ref:

2501240

Merlin R&R: 125555

06 February 2009

1 1 rub 2009

FAO: Stephen Reynolds

Merlin Claims Kingfisher House Hoffmans Way Chelmsford CM1 1GU

Dear Sirs

Re:

104 Haverstock Hill London NW3 2BD

Origin Housing

Amanda Jmes

Further in the above matter, we are now pleased to enclose the soils analysis report for your information and retention.

Yours faithfully For **HACE**

P R Carruthers

Managing Director

HACE TECHNICAL SERVICES LTD

15 ST CUTHBERTS STREET BEDFORD MK 40 3 JB TEL 0 1 2 3 4 2 7 2 7 7 2 FAX 0 1 2 3 4 2 1 8 2 3 9 e-mail HACE_CONSULTING@hotmail.com



ISSUED BY

:SOIL PROPERTY TESTING LTD.

DATE OF ISSUE: 31/01/09 PAGE 1 of 6 Pages

Contract

Serial No.

104 Haverstock Hill, LONDON NW3 2BD

S21768



\sim	гΤ	ים י	N٦	п.	

HACE Technical Services Ltd 15 ST CUTHBERTS STREET BEDFORD MK40 3JB

Soil Property Testing

18 Halcyon Court, St Margarets Way, Stukeley Meadows, Huntingdon, Cambs. PE29 6DG.

Telephone (01480) 455579 Fax (01480) 453619 Email SPTownend@btclick.com

SAMPLES SUBMITTED BY:

HACE Technical Services Ltd

APPROVED SIGNATORIES:

S.P.TOWNEND FGS
Technical Director

 \square W.JOHNSTONE

Deputy Technical/Quality Manager

J.C.GARNER B.Eng (Hons.) FGS
Quality Manager

1. .

SAMPLES LABELLED:

P6687

DATE RECEIVED:

21/01/09

SAMPLES TESTED BETWEEN 21/01/09 and 31/01/09

REMARKS:

For the attention of Mr P Carruthers

Your client: Origin Housing

- NOTES: 1
- All remaining samples or remnants from this contract will be disposed of after 21 days from today, unless we are notified to the contrary.
- 2 (a) UKAS United Kingdom Accreditation Service.
 - (b) Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
- 3 Tests marked "NOT UKAS ACCREDITED" in this test report are not included in the UKAS Accreditation Schedule for this testing laboratory.
- 4 This test report may not be reproduced other than in full except with the prior written approval of the issuing laboratory.



ISSUED BY : SOIL PROPERTY TESTING LTD.

DATE OF ISSUE: As page 1 PAGE 1 of 6

Contract Serial No.

104 Haverstock Hill, LONDON

S21768

NW3 2BD

SCHEDULE OF LABORATORY TESTS

Bh./ Tp No.	Sample Ref	Depth (from)		/3 ³	Styr	e cor	tent plast	Dete	rmine	£10,	int												
		<u> </u>	_	· WO	1	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	\leq		Remarks
01	D1	US/F	×.		_		_	<u>L</u>	<u> </u>														
	D2	2.00	*	> x		<u> </u>	<u> </u>			ļ	ļ						<u> </u>						
	D3	3.00	200			ļ								<u>.</u>									
			3	1	<u> </u>	ļ							<u></u>								<u> </u>	< Tota	l Number of Tests —
		-·			ļ			<u> </u>														_	
				L																			-
					<u> </u>																i	-	
				Ī																			
				ļ																-			
			-																				
								-													<u> </u>		
															_								
						-	-				-										<u> </u>		<u>.</u>
						<u> </u>	-											<u> </u>				<u> </u>	
			_			-																	
						 												!					
																							<u> </u>
																							-
			_												-								
													-										
																	i		·				
	_																						
												-										 	
								$\neg +$							-								
	duled i	 ,																				-	Date: 30/01/0



ISSUED BY

:SOIL PROPERTY TESTING LTD.

DATE OF ISSUE: As page 1 PAGE $\mathcal J$ of ℓ

Contract

Serial No.

104 Haverstock Hill, LONDON NW3 2BD

S21768



DETERMINATION OF MOISTURE CONTENT

	,		DE I FLIM	INATION OF MOISTONE CONTENT	
Borehole/ Pit No.	Depth m.	Sample	Moisture Content	Description	Remarks
01	0.75	D1	25	Stiff locally very stiff friable dark yellowish brown calcareous CLAY with occasional brown mottling, selenite crystals, rare cinder fragments and recently active roots	Oven dried at a maximum of 80°C due to the presence of selenite
01	2.00	D2	23	Very stiff friable dark yellowish brown CLAY with occasional brown mottling, selenite crystals and rare recently active and decayed roots	Oven dried at a maximum of 80°0 due to the presence of selenite
01	3.00	D3	23	Very stiff friable brown and dark yellowish brown CLAY with occasional grey and orange mottling, rare fine sand/silt pockets, selenite crystals and recently active roots	Oven dried at a maximum of 80°C due to the presence of selenite
		ļ			
			·		
į					

METHOD OF PREPARATION: BS 1377:PART 1:1990:7.3

METHOD OF TEST

: BS 1377: PART 2:1990:3.2

TYPE OF SAMPLE KEY : U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample,

C = Core Cutter

COMMENTS

REMARKS TO INCLUDE : Sample disturbance, loss of moisture, variation from test procedure, location and origin

of test specimen within original sample. Oven drying temperature if not $105-110~{\rm deg}$ C.





ISSUED BY : SOIL PROPERTY TESTING LTD.

DATE OF ISSUE: As page 1 PAGE 4 of 6

Contract

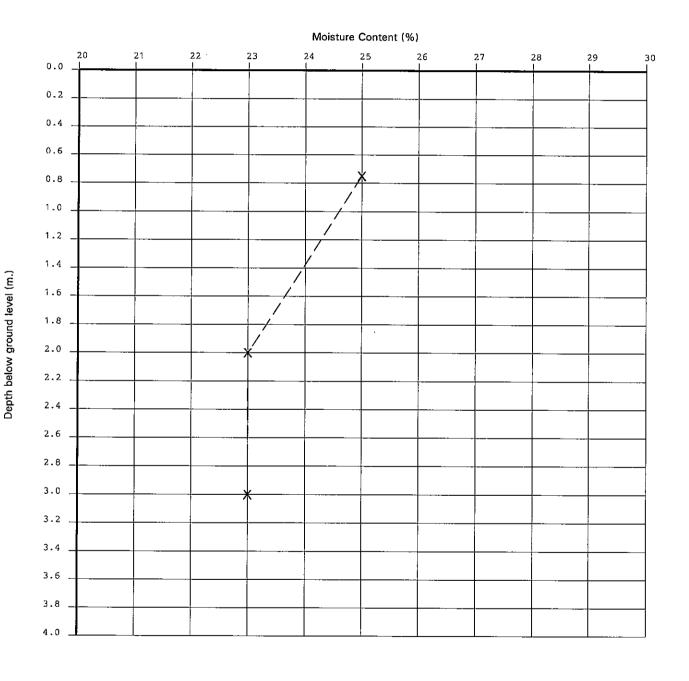
Serial No.

104 Haverstock Hill, LONDON

S21768

NW3 2BD

Moisture Content (%) vs Depth below ground level (m.).



	X:01				
Key to					
Data Points		-			
		_	·	 	



ISSUED BY

:SOIL PROPERTY TESTING LTD.

DATE OF ISSUE: As page 1

PAGE 5 of 6

Contract

Serial No.

104 Haverstock Hill, LONDON NW3 2BD

S21768



SUMMARY OF MOISTURE CONTENT, LIQUID LIMIT, PLASTIC LIMIT,

PLASTICITY INDEX AND LIQUIDITY INDEX

					D	<u>.</u>			SAMPLE PREPARATION				
Borehole/ Pit No.	Depth m.		Moisture Content (%)	Limit (%)	Plastic Limit (%)	Plast- icity Index (%)	Liqu- idity Index (%)		Ret'd 0.425um (%)	Corr'd	Curing Time	Description	CLASS
01	0.75	D1	25	•••	-	_						Stiff locally very stiff friable dark yellowish brown calcareous CLAY with occasional brown mottling, selenite crystals, rare cinder fragments and recently active roots	
01	2.00	D2	23	77	28	49	-0.10	N	0(A)	; ; ;	24	Very stiff friable dark yellowish brown CLAY with occasional brown mottling, selenite crystals and rare recently active and decayed roots	CV
01	3.00	D3	23			_						Very stiff friable brown and dark yellowish brown CLAY with occasional grey and orange mottling, rare fine sand/silt pockets, selenite crystals and recently active roots	

METHOD OF PREPARATION: BS 1377:PART 1:1990:7.4 & PART 2:1990:4.2

S ≈ Wet Sieved Specimen N = prepared from Natural

: BS 1377: PART 2:1990:3.2, 4.4, 5.3, 5.4

TYPE OF SAMPLE KEY

METHOD OF TEST

: U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample,

C = Core Cutter. A = Assumed, M = Measured

COMMENTS

:

REMARKS TO INCLUDE

: Sample disturbance, loss of moisture, variation from test procedure, location and origin

of test specimen within original sample. Oven drying temperature if not 105-110 deg C.



ISSUED BY

:SOIL PROPERTY TESTING LTD.

DATE OF ISSUE: As page 1

PAGE 6 of 6

Contract

Serial No.

104 Haverstock Hill, LONDON

S21768

NW3 2BD



DETERMINATION OF MOISTURE CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole/ Pit No.	Depth m.	Sample	Moisture Content		Description		Remarks
01	2.00	D2	23	lwith occasion	iable dark yellowish br al brown mottling, sele rare recently active an	nite 180°C due	ed at a maximum of to the presence of
	PI	REPARAT	ION		Liquid Limit		77 %
Method of Pro	eparation .	Specimen fro	m Natural So	i1	Plastic Limit		28 %
Sample retain	ned 0.425 siev	e (Assumed)	0 %	Plasticity Index		49 🕺
Corrected mo	isture content	for material p	passing 0.425mm	*	Liquidity Index		-0.10
Curing Time				24 Hours	Clay Content		Not analysed. %
					Derived Activity (PI/CC)	Not analysed.
C = CLA	ΑY	70	CL	CI	CH CV	CE	
	ı	50					
	!	50			×		High
Plasti	city	10					Char
Index (I _p)	%	30					Medium High NHBC Volume Change Potential
		20					NG P
		6	ML	MI	MH MV	ME	
M = SIL	.т	0	20 30	40 50	60 70 80 9	0 100 110 1	ا مورد Liquid Limit 9

METHOD OF PREPARATION: BS 1377: PART 1:1990:7.4 & PART 2:1990:4.2

METHOD OF TEST

: BS 1377: PART 2:1990: 3.2, 4.4, 5.3, 5.4

TYPE OF SAMPLE KEY : U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample,

C = Core Cutter

COMMENTS

: PLASTICITY CHART BS5930:1999:Figure 18

VOLUME CHANGE POTENTIAL: NHBC Standards Chapter 4.2 Unmodified Plasticity Index

NOTE: Modified Plasticity Index I'p = Ip x (% less than 425 microns/100)





HACE Technical Services Limited 15 St Cuthberts Street Bedford MK40 3JB

Intec Pare Menai, Bangor, Gwynedd, North Wales LL57 4FP Tel: 01248 672652 Fax: 01248 672601

13/01/2009

Your ref: P6687 Job No: Root130109112725

Dear Sir

Re:

Root Identification

Sample Origin:

104 Haverstock Hill, London, NW3 2BD

The sample of roots taken from the above property and received by us on 13 January 2009, has been examined and identification appears to be as follows:

Reference	Depth	Species Identified		Root Diameter	Starch
TP01	0.75-2m	probably Quercus spp. but possibly Castanea spp.	I	4 mm	Abundant
TP01	0.75-2m	Hebe spp.		l mm	None Visible

Comments:

1 - Plus 4 others also identified as probably Quercus spp. but possibly Castanea spp.

Quercus spp. are oaks. Castanea spp. include sweet chestnut.

 $Hebe\ {
m spp.}$ are common flowering evergreen shrubs.

2 species were identified.

Signed GST

Checked MDM

Unless we are otherwise instructed in writing, the above sample material will normally be disposed of 3 years after the date of this report.







SITE NOTES

MERLIN REF	2501240
HTS REF	P6687
DATE	09 January 2009
RISK ADDRESS	104 Haverstock Hill London NW3 2BD
INSURED	Origin Housing

Steve

The foundations to the steps are 750mm below ground level sited in very stiff clay with roots. Please note that I believe the tree causing the problem to be within the garden of 104 not the Local Authority. I may be wrong but it certainly seems that way.

We are having soils and roots tested and will revert to you once the laboratory results are in.

Paul



$\frac{\textbf{SITE INVESTIGATION}}{\textbf{REPORT}}$

MERLIN REF	2501240
HTS REF	P6687
DATE	09 January 2009
RISK ADDRESS	104 Haverstock Hill London NW3 2BD
INSURED	Origin Housing

1) LOCATION PLAN FOR:-	> TRIAL HOLE > DEMEC > DRAINAGE	
2) TRIAL HOLE LOG		V
3) DEMEC RECORD		
4) DRAINAGE REPORT		

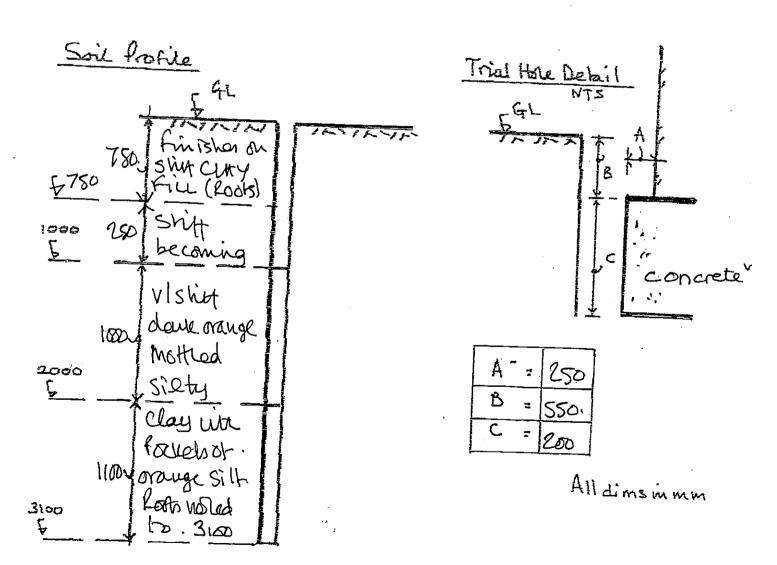


2) TRIALPIT LOGS – TH01

MERLIN REF	2501240
HTS REF	P6687
DATE	09 January 2009
RISK ADDRESS	104/Haverstock Hill London NW3 2BD
INSURED	Origin Housing

Thol

Date 9.1.09



Soil Samples taken at VISF, 200, 3000 Root Samples taken at 5No. Between 750 + 2000.