



## SITE INVESTIGATION FACTUAL REPORT



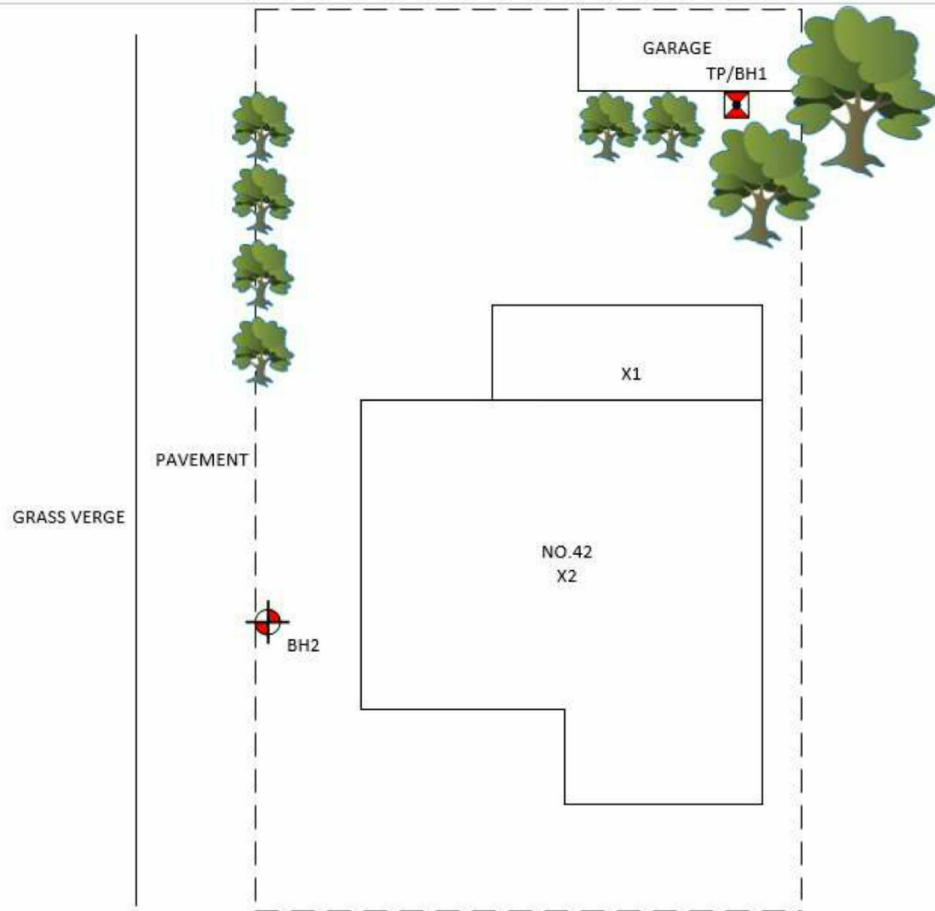
42 Hillway London N6 6HH

GHG

07/06/2023

*PLEASE NOTE THAT OUR SOIL TESTING IS UNDERTAKE VIA A SEPARATE UKAS  
ACCREDITED LAB*

# SITE LAYOUT PLAN



Trial Pit No: 1		Date: 07/06/2023	Site: 42 Hillway
Excavation Method: Hand Tools		Ground Level MOD	Client: GHG
Co-ordinates: SP			Weather During Survey: Dry

50MM  
320MM  
250MM  
200MM  
1300MM  
850MM  
200MM  
DV 140+  
140+

BRICK  
CONCRETE  
CONCRETE FOUNDATION

1300MM

ARMoured  
ELECTRIC CABLE  
PVC CONDUCT

FOR STRATA BELOW 1500MM  
SEE BH LOG 1

GROUND LEVEL

MADE GROUND MEDIUM  
COMPACT TO COMPACT DARK  
BROWN/ORANGE SANDY SILTY  
CLAY WITH GRAVEL AND BRICK  
FRAGMENTS

ROOTS TO 2MM DIAMETER

VERY STIFF MID BROWN/  
ORANGE SILTY CLAY

ROOTS TO 1MM DIAMETER

REMARKS:		KEY:	
		D: SMALL DISTURBED SAMPLE	J: JAR SAMPLE
		B: BULK DISTURBED SAMPLE	V: PILCON VANE (kPa)
		U: UNDISTURBED SAMPLE (U100)	M: MACKINTOSH PROBE
		W: WATER SAMPLE	N: STANDARD PENETRATION TEST BLOW COUNT

LOGGED BY: SP	CHECKED BY:	APPROVED BY:	NOT TO SCALE
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<b>Borehole</b>		<b>1</b>	Sheet: 1 of 1		Site: 42 Hillway
Boring Method: Drive-In-Sampler		Job No:		Date: 07/06/2023	
Diameter (mm): 100		Weather: dry		Ground Level:	
Client: Dws					
Depth	Soil Description				Samples and Tests
(m)		Thickness	Legend	Depth	Type Result
0.00	See Trial Pit	1.50			
1.50	Very stiff orange-brown CLAY	3.50		1.50	U
				2.00	UV 140+
					140+
				2.50	U
				3.00	UV 140+
					140+
				3.50	U
				4.00	UV 140+
					140+
				4.50	U
				5.00	UV 140+
5.00	End of BH				140+
Remarks: BH ends at 5.0m. BH dry and open on completion. No roots observed below 3.5m.		Key: D - Disturbed Sample B - Bulk Sample W - Water Sample      Roots J - Jar Sample      Roots V - Pilcon Shear Vane (kPa) Roots M - Mackintosh Probe      Depth to Water (m) TDTD - Too Dense To Drive		To Depth (m)	Max Dia (mm)
Logged: SP		Checked:		Approved:	Version V1.0 28/01/16 N.T.S.

[illegible]

Our Ref :  
Location :  
Client :  
Address :

42 Hillway  
D.W. Solutions

## Laboratory Summary Results

Date Sampled: 07/06/2023  
Date Received : 12/06/2023  
Date Tested : 26/06/2023  
Date of Report : 07/07/2023

YPBH 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 (%) [6]	# Modified Plasticity Index (%) [10]	# Soil * Class [7]	# Filter Paper Contact Time (d.)	# 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 (%) [14]	# Class [15]
1	U/S 1.30	D	23	<5	58	25	33	-0.05	33	CH	7	937			> 140				
	1.5	D	24	<5															
	2.0	D	23	<5	61	26	35	-0.07	35	CH	7	1370			> 140				
	2.5	D	23	<5															
	3.0	D	23	<5	68	28	40	-0.13	40	CH	7	1460			> 140				
	3.5	D	21	<5															
	4.0	D	22	<5	62	26	36	-0.12	36	CH	7	1470			> 140				
	4.5	D	25	<5															
	5.0	D	24	<5	68	27	41	-0.07	41	CH	7	1410			> 140				

### 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] BS 1377: Part 2: 1990, Test No. 5.4

[7] BS 5930: 2018 - Figure 9 - Plasticity Chart for the classification of fine soils

[8] BS 5930: 2018 - Figure 9 - Plasticity Chart for the classification of fine soils

[9] BS 5930: 2018 - Figure 9 - Plasticity Chart for the classification of fine soils

[10] BS 5930: 2018 - Figure 9 - Plasticity Chart for the classification of fine soils

[11] BS 5930: 2018 - Figure 9 - Plasticity Chart for the classification of fine soils

[12] BS 5930: 2018 - Figure 9 - Plasticity Chart for the classification of fine soils

[13] BS 5930: 2018 - Figure 9 - Plasticity Chart for the classification of fine soils

[14] BS 5930: 2018 - Figure 9 - Plasticity Chart for the classification of fine soils

[15] BS 5930: 2018 - Figure 9 - Plasticity Chart for the classification of fine soils

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

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

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

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

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### Notes

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

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

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

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

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



Our Ref: [REDACTED]

Location : 42 Hillway  
Client: D.W Solutions  
Address: [REDACTED]

## Laboratory Summary Results

Date Sampled : 07/06/2023  
Date Received : 12/06/2023  
Date Tested : 26/06/2023  
Date of Report : 07/07/2023

Sample Ref.	BH No.	Depth (m)	Type	# Moisture Content (%) [1]	# Soil Fraction > 0.425mm (%) [2]	# Liquid Limit (%) [3]	# Plastic Limit (%) [4]	- Plasticity Index (%) [5]	- Liquidity Index [3]	- Modified Plasticity Index (%) [6]	- Soil Class [7]	# Filter Paper Contact Time (d.) [8]	# Soil Sample Suction (kPa) [9]	# Oedometer Strain [9]	- Estimated * Potential (Dd) (mm) [10]	In situ * Shear Vane Strength (kPa) [11]	Organic * Content (%) [12]	pH Value [13]	Sulphate Content (%) [14]	* Class [15]
2		U/S 0.50	D	23	<5	39	19	20	0.21	20	CI	7	5.62							
		1.0	D	21	<5											66				
		1.5	D	26	<5	67	26	41	0.00	41	CH	7	121							
		2.0	D	26	<5											110				
		2.5	D	26	<5	68	27	41	-0.04	41	CH	7	164							
		3.0	D	24	<5											> 140				
		3.5	D	26	<5	65	27	38	-0.03	38	CH	7	260							
		4.0	D	28	<5											> 140				
		4.5	D	28	<5	69	30	39	-0.05	39	CH	7	429							
		5.0	D	33	<5							7	244			> 140				

### Test Methods / Notes

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

[2] Estimated w-%, 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] BS 1377: Part 2: 1990, Test No 5.4

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

### Key

D Disturbed sample (small)

H Disturbed sample (bulk)

U Undisturbed sample

W Groundwater sample

SNP Essentially Non-Plastic by inspection

U/S Underside of Foundation

Test results reported relate only to the items tested.

This report shall not be reproduced except in full without approval of the laboratory.

The laboratory does not apply a conformity statement to test reports as standard, unless specifically requested by the customer.

Opinions and interpretations expressed herein are outside of the scope of UKAS accreditation.

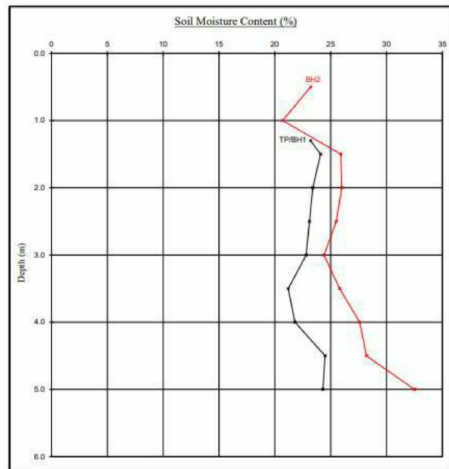
# These tests have been subcontracted and carried out by PSL (Part of the Phenna Group)

PSL reports can be provided upon request

Version: BH V1 SUBCON - 28.03.2023

### Moisture Content Profiles

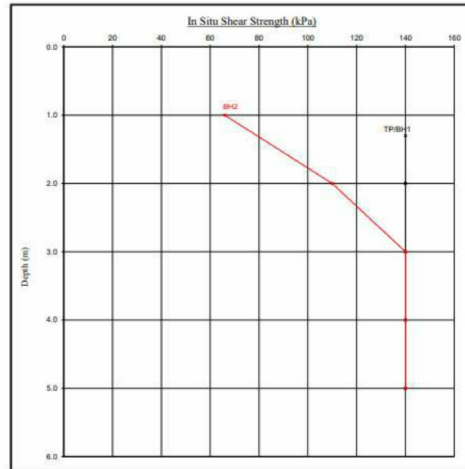
Our Ref : XXXXXXXXXX  
Location : 42 Hillway  
Work carried out for: D.W. Solutions



**Notes:**  
1. If plotted, 0.4 LL and PL-2 (after Dincoff, 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

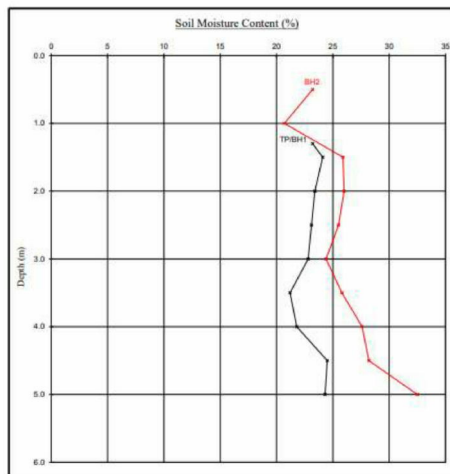
Date Sampled : 07/06/2023  
Date Received : 12/06/2023  
Date Tested : 26/06/2023  
Date of Report : 06/07/2023



**Notes:**  
1. Unless otherwise stated, values of Shear Strength were determined as site by CTS using a P-wave Head 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

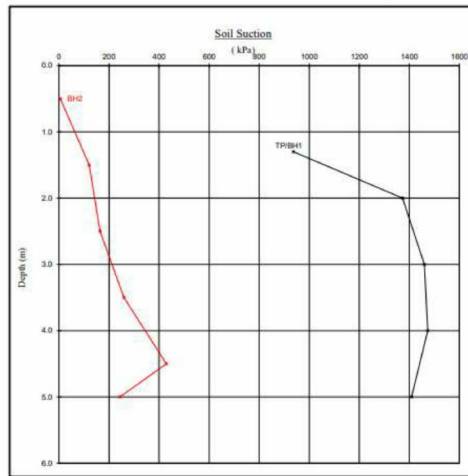
Our Ref : XXXXXXXXXX  
Location : 42 Hillway  
Work carried out for : D.W. Solutions



**Notes**  
1. If plotted,  $0.4LL$  and  $PL-2$  (after Driscoll, 1983) should only be applied to London Clay (and similarly overconsolidated clay) at shallow depths.  
2. Unless specifically stated the profiles have not been related to a site datum.

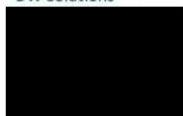
### Soil Suction Profiles

Date Sampled : 07/06/2023  
Date Received : 12/06/2023  
Date Tested : 26/06/2023  
Date of Report : 06/07/2023



**Notes**  
When shown, the theoretical equilibrium suction profiles are based on conventional assumptions associated with London Clay (and similarly overconsolidated clay) at shallow depths. Note that the sample disturbance component is dependent on the method of sampling and any subsequent reconsolidation. 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 reconsolidated samples. This may or may not be appropriate in this instance and judgement should be exercised.

DW Solutions



Inter



## ROOT IDENTIFICATION

42 Hillway,

Client Reference: N/A  
Report Date: 19 June 2023

Sub Sample	Species Identified	Root Diameter	Starch
<b>TP1:</b>			
USF	Cupressaceae spp.	1	2 mm Abundant
USF	Pomoideae gp.		1.5 mm Abundant
<b>BH1:</b>			
to 3.5m	Cupressaceae spp.	2	1.5 mm Abundant
<b>BH2:</b>			
to 1.3m	broadleaved species, too juvenile for positive identification		<1 mm Low

### Comments:

- 1 - Plus 1 other also identified as Cupressaceae spp.  
2 - Plus 2 others also identified as Cupressaceae spp.

Cupressaceae spp. include Lawson cypress, western red cedar, Monterey cypress, Leyland cypress and junipers.  
Pomoideae gp include apple, cotoneaster, hawthorn, pear, pyracantha, quince, rowan, snowy mespil and whitebeam.

**Signed:** M D Mitchell

Unless we are otherwise instructed in writing, the above sample material will normally be disposed of 6 years after the date of this report.

