SITE INVESTIGATION REPORT

55 Fitzroy Park, London N6 6JA

ISSUE 00

SITE INVESTIGATION REPORT

55 Fitzroy Park, London N6 6JA

Prepared for: LBH Wembley Engineering

Concept: 17/3003 - FR 00 15/09/2017

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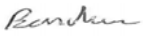
Prepared by:	B Milne		15/09/2017
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15/09/2017	Issue 00		LBH Wembley

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10. GEOTECHNICAL LABORATORY TEST RESULTS

11. PHOTOGRAPHS

1. PROJECT PARTICULARS

Site Location:	55 Fitzroy Park, London, N6 6JA
Client:	LBH Wembley Engineering
Fieldwork:	24/07/2017 – 04/08/2017
Laboratory Work:	17/08/2017 – 13/09/2017

2. PURPOSE AND SCOPE OF WORKS

The site consists of two houses and a garden, the work was undertaken in the garden.

The site is to be redeveloped through the demolition of the existing houses and the construction of five new houses.

The scope of the works comprised the following:

- 2 No. Cable Percussion Boreholes to a maximum depth of 30.00m;
- 14 No. Dynamic Sampling Boreholes to a depth of 5.00m;
- Logging and Photographing;
- Geotechnical Testing.

Table 1 – Exploratory Hole List

Hole ID	Hole Type	Depth (m)
BH01	CP	30.00
BH02	CP	30.00
BH04	IP	1.20
BH06	DS	5.00
BH07	DS	5.00
BH08	DS	2.00
BH10	DS	4.00
BH11	DS	5.00
BH12	DS	3.00

Hole ID	Hole Type	Depth (m)
BH13	DS	5.00
BH14	DS	5.00
BH15	DS	4.00
BH17	DS	2.00
BH18	DS	3.60
BH19	DS	5.00
BH20	DS	2.00
BH21	DS	3.00

Key
CP –Cable Percussion Borehole
DS –Dynamic Sampling Borehole
IP –Hand Excavated Inspection Pit

3. DESCRIPTION OF WORKS

The works were carried out in accordance with the LBH Wembley Engineering Specification “No. 55 Fitzroy Park - Specification for Ground Investigation E4269SI R1.0” dated 15th March 2017 and with the Concept Method Statement (17/3003 MS Rev 00, 11/07/2017).

The site is located to the east of Hampstead Heath. The centre of the site can be approximately located at National Grid reference TQ 27799 86944.

4. INVESTIGATION METHODS

4.1 Inspection Pits

Inspection pits were hand excavated to a maximum depth of 1.20m at all exploratory borehole locations. BH04 was aborted at 1.20m depth due to soft, uneven ground unsuitable for the drilling rig.

4.1 Cable Percussion Drilling

2 No. Cable Percussion Boreholes (BH01 & BH02) were drilled to a maximum depth of 30.00m using a standard cable percussion rig (Dando 2000) with 200mm and 150mm diameter casing as appropriate.

4.1.1 Sampling and Testing during Cable Percussion Drilling

Bulk samples were taken at regular intervals in the Made Ground and thereafter at each change in strata. Undisturbed Thin Walled (UT) samples were taken in accordance with EC7 using a down-hole sliding hammer in cohesive material at specified intervals or as instructed by the Investigation Supervisor.

Standard Penetration Tests (SPT) were carried out at specified intervals or as otherwise instructed by the Engineer. The resulting SPT “N” blowcount values are presented in the relevant borehole records. Where an SPT using a split spoon sampler was not possible, due to the granular nature of the material, a solid cone was used.

Small, disturbed samples were retrieved from the cutting shoe of the UT sampler, the SPT split spoon sampler and at specified intervals.

The cable percussion borehole logs are presented in Section 8 of this report.

4.2 Dynamic Sampling Boreholes

14 No. Dynamic Sampling Boreholes (BH06-BH08 & BH10-BH21) were carried out to a maximum depth of 5.00m using a tracked Geo drive-tube sampling rig.

The liners retrieved from all the borehole locations were split, logged and photographed. Bulk and small disturbed samples were also taken for soils analysis.

Standard penetration tests (SPT) were carried out at 1.00m intervals. The resulting SPT ‘N’ blowcount values are presented in the relevant borehole records in Section 9 of this report.

4.3 Standpipe Installations

Monitoring wells with flush stopcock covers were installed in the boreholes as follows:

Table 2 – Monitoring Installation Details

Hole ID	Base of Borehole (m bgl)	Diameter of Installation (mm)	Type of Installation	Base (m bgl)	Top RZ (m bgl)	Bottom RZ (m bgl)
BH01	30.00	50	SPG/GW	5.00	3.50	5.00
BH02	30.00	50	SPG/GW	5.00	4.00	5.00
BH06	5.00	19	SPG/GW	5.00	4.00	5.00
BH07	5.00	19	SPG/GW	2.50	1.50	2.50
BH08	2.00	19	SPG/GW	2.00	1.00	2.00
BH11	5.00	19	SPG/GW	4.50	3.50	4.50
BH12	3.00	19	SPG/GW	3.00	2.00	3.00
BH13	5.00	19	SPG/GW	5.00	4.00	5.00
BH14	5.00	19	SPG/GW	2.50	1.50	2.50
BH15	4.00	19	SPG/GW	3.50	2.50	3.50
BH17	2.00	19	SPG/GW	2.00	1.00	2.00
BH18	3.60	19	SPG/GW	3.50	2.50	3.50
BH19	5.00	19	SPG/GW	2.00	1.00	2.00
BH20	2.00	19	SPG/GW	2.00	1.00	2.00
BH21	3.00	19	SPG/GW	3.00	2.00	3.00

KEY
SPG/GW – Gas & Groundwater Standpipe
RZ – Response Zone

The borehole was backfilled with bentonite pellets, with gas/groundwater response zones backfilled with a 10mm pea shingle filter. The installation was finished with concrete and a lockable stopcock cover flush with the ground.

4.4 Instrumentation Monitoring

Gas and groundwater monitoring was carried out by others.

4.5 Logging / Laboratory Testing

Logging of all soil samples was carried out in accordance with BS 5930:2015.

Geotechnical testing is performed at Concept Site Investigations laboratory in accordance with BS1377:1990 unless otherwise stated in the report. Concept is accredited by UKAS for tests where the UKAS logo is appended to the individual test report or summary. Approved signatories for laboratory testing are as follows:

- LG – Lynn Griffin (Quality Manager)
- KM – Kasia Mazerant (Laboratory Manager)

Where subcontracted analysis has been carried out, the details of the laboratory (and accreditation where applicable) are shown in the individual test report or summary.

The results are presented in tabular format in Section 10 of this report.

4.6 Setting Out

The locations of all exploratory holes were agreed with the client and set out prior to commencement of the site works.

The positions of the as-built locations of the boreholes are shown in the Exploratory Hole Location Plan presented in Section 7 of this report.

5. GEOLOGICAL GROUND PROFILE

The geological strata encountered during the investigation are summarised in the table below. The Top and Bottom of the strata noted in the table indicates the highest and lowest boundaries encountered in all exploratory holes.

Table 3 - Geological Ground Profile

STRATUM	TOP (m bgl)	BASE (m bgl)	DESCRIPTION
MADE GROUND	0.00	5.00	Very soft to soft, dark grey and dark brown slightly sandy gravelly silty CLAY with occasional rootlets and rare glass fragments. Gravel comprises angular to subrounded fine to coarse flint, brick and concrete fragments. Sand is fine to coarse. Very soft to soft, dark brown sandy gravelly SILT with low cobble content and frequent pockets of brown silty sandy gravelly clay. Cobbles are brick.
LANGLEY SILT	1.20	5.00	Soft, grey to dark bluish grey slightly sandy silty CLAY with occasional rootlets and occasional orangish brown staining. Sand is fine.
WEATHERED LONDON CLAY	0.40	8.30	Firm, brown to orangish brown mottled grey silty CLAY with rare pockets of orange silty fine sand and occasional rootlets.

STRATUM	TOP (m bgl)	BASE (m bgl)	DESCRIPTION
LONDON CLAY	7.00	EXTENT NOT PROVEN	Firm, dark brownish grey silty CLAY with rare pockets of dark grey clayey silt (<10mm) and rare bioturbation.

REFERENCES

British Standards Institution, (2015) Code of practice for ground investigations, British Standard BS5930: 2015, BSI, London

British Standards Institution, (2011) Investigation of potentially contaminated sites, British Standard BS10175: 2011, BSI, London.

UK Specification for Ground Investigation, (2011) Site Investigation Steering Group, Thomas Telford, London

British Geological Survey (1996) London and the Thames Valley 4th Edition, London HMSO.

British Standards Institution BS EN ISO 22475-1, (2006) Geotechnical Investigation and Testing – Sampling Methods and Groundwater Measurements – Part 1: Technical Principles for Execution

British Standards Institution BS EN 1997:1 (2004) EuroCode 7 - Geotechnical Design. Part 1 – General Rules.

British Standards Institution BS EN 1997:2 (2007) EuroCode 7 - Geotechnical Design. Part 2 - Ground Investigation and Testing.

King C. (1981) The stratigraphy of the London Basin and associated deposits. Tertiary Research Special Paper, Vol. 6, Backhuys, Rotterdam, p158.

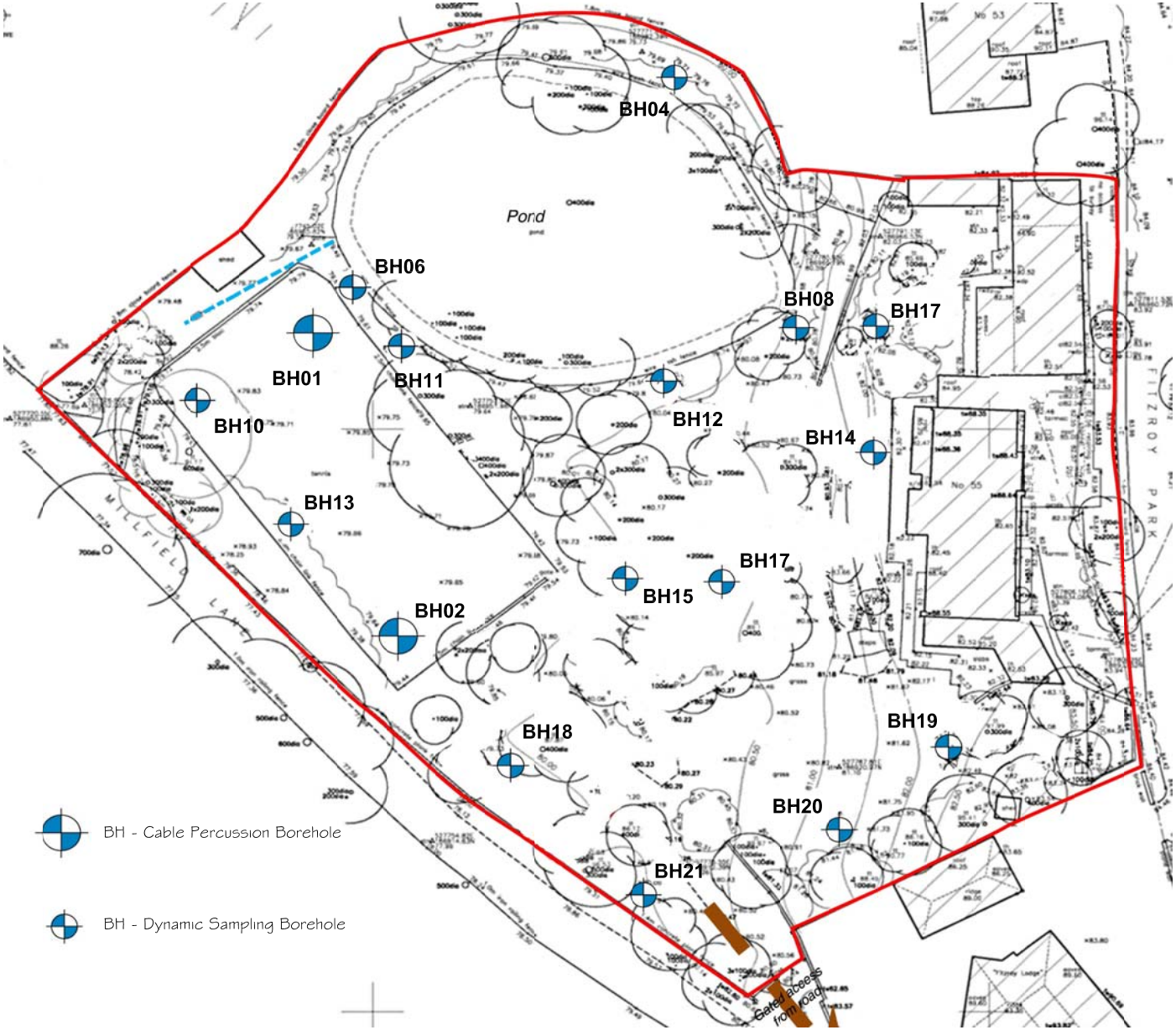
6. SITE LOCATION PLAN

Not to Scale © Crown Copyright reserved

7. EXPLORATORY HOLE LOCATION PLAN

NOTES

1. This drawing should not be scaled.



No	Revision	Drawn	Checked	Passed	Date

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Client:	LBH Wembley Engineering
Project:	55 Fitzroy Park
Title:	Exploratory Hole Location Plan
Dwg. No:	17/3003
Status:	Issue
Scale:	NTS

Drawn	Checked	Passed	Date
OS	SW	MD	September 17

8. CABLE PERCUSSION BOREHOLE LOGS

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Borehole No

BH01

Project

55 Fitzroy Park

Job No	Date Started	Ground Level (mOD)	Co-Ordinates	Final Depth
17/3003	24/07/17			30.00m
	Date Completed 25/07/17			

Client

LBH Wembley Engineering

BOREHOLE SUMMARY

Top (m)	Base (m)	Type	Date Started	Date Ended	Crew	Logged By	Core Barrel (mm)	Core Bit	Plant Used/ Method	SPT Hammer Reference
0.00	1.20	IP	24/07/2017	24/07/2017	JM	OB			Hand Excavated	
1.20	30.00	CP	24/07/2017	25/07/2017	JM	OB			Dando 2000	SEDS6

WATER STRIKES

Strike at (m)	Rise to (m)	Time to Rise (min)	Casing Depth (m)	Sealed (m)

WATER ADDED

From (m)	To (m)

CHISELLING / SLOW DRILLING

From (m)	To (m)	Duration (hr)	Remarks

HOLE

Depth (m)	Diameter (mm)
0.00	200
30.00	200

CASING

Depth (m)	Diameter (mm)
0.00	200
5.00	200

ROTARY RECOVERY

From (m)	To (m)	Blows	Recovery (%)

ROTARY FLUSH DETAIL

From (m)	To (m)	Flush Type	Flush Return (%)	Flush Colour

INSTALLATION DETAILS

Type	Diameter (mm)	Depth of Installation (m)	Top of Response Zone (m)	Bottom of Response Zone (m)	Date of Installation
SPG/GW	50	5.00	3.50	5.00	25/07/2017

BACKFILL DETAILS

Top (m)	Bottom (m)	Material	Backfill Date
0.00	0.30	Concrete / Flush Cover	25/07/2017
0.30	3.50	Bentonite Pellets	
3.50	5.00	Pea Shingle	
5.00	6.00	Bentonite Pellets	
6.00	30.00	Cement / Bentonite Grout	

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Borehole No

BH01

Project

55 Fitzroy Park

Job No	Date Started	Ground Level (mOD)	Co-Ordinates	Final Depth
17/3003	24/07/17			30.00m
	Date Completed 25/07/17			

Client

LBH Wembley Engineering

PROGRESS

Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)	Remarks
24/07/17	0.00		Dry	
24/07/17	1.20		Dry	
24/07/17	4.50	2.50	Dry	
25/07/17	4.50	2.50	Dry	
25/07/17	5.00	5.00	Dry	
25/07/17	30.00	5.00	Dry	

SPT DETAILS

Type	Depth (m)	N Value	Blow Count / 75mm	Casing Depth (m)	Water Depth (m)
C	1.20	N4	1, 0 / 1, 1, 1, 1		Dry
S	2.00	N3	1, 0 / 1, 0, 1, 1		Dry
S	3.00	N3	1, 0 / 1, 0, 1, 1	2.50	Dry
S	4.00	N11	1, 2 / 2, 3, 3, 3	2.50	Dry
S	7.00	N18	2, 3 / 3, 5, 5, 5	5.00	Dry
S	10.00	N26	3, 4 / 6, 6, 7, 7	5.00	Dry
S	13.00	N32	5, 5 / 7, 7, 8, 10	5.00	Dry
S	16.00	N31	4, 5 / 6, 8, 8, 9	5.00	Dry
S	19.00	N33	5, 6 / 6, 8, 9, 10	5.00	Dry
S	22.00	N41	6, 7 / 9, 9, 11, 12	5.00	Dry
S	25.00	N42	5, 7 / 8, 10, 11, 13	5.00	Dry
S	28.50	N49	4, 6 / 9, 13, 13, 14	5.00	Dry

GENERAL REMARKS

KEY

SAMPLES

ES - Environmental Sample (Tub, Vial, Jar)
U - 100mm Diameter Undisturbed Sample
UT - 100mm Diameter Thin Wall Undisturbed Sample
U38 - 38mm Diameter Undisturbed Sample
D - Disturbed Sample, B-Bulk Sample, LB- Large Bulk Sample, BLK-Block Sample
C - Core Sample, W-Water Sample, R-Root Sample

INSTALLATION DETAILS

SPIE - Standpipe Piezometer
SPGW - Groundwater Monitor Standpipe
SPG/GW - Gas / Groundwater Monitor Standpipe
VWP - Vibrating Wire Piezometer
ICM - Inclinometer

HOLE TYPES

IP -Inspection Pit, TP-Trial Pit TT - Trial Trench
CP -Cable Percussion, RC-Rotary Coring, R/S-Rotary/Sonic
DS -Dynamic Sampling, DS/R-Dynamic Sampling /Rotary
DC -Diamond Coring, CP/R-Cable Percussion Rotary follow on

TESTS S/C-SPT / CPT, V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds

Note: All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

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Borehole No

BH01

Project

55 Fitzroy Park

Job No	Date Started	Ground Level (mOD)	Co-Ordinates	Final Depth
17/3003	24/07/17			30.00m
	Date Completed 25/07/17			

Client	Method/ Plant Used	Sheet
LBH Wembley Engineering	Cable Percussion	1 of 3

PROGRESS			STRATA				SAMPLES & TESTS				
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result	Field Records	Instrument/ Backfill
24/07/17		Dry			0.15	Asphalt.	0.20	B01			
					(0.45)	(MADE GROUND)					
					0.60	Soft, dark grey and dark brown sandy very gravelly CLAY with low cobble content, occasional glass (<30mm), ceramic (<50mm) and wood fragments (<100mm) with rare rootlets (<40mm). Gravel comprises angular to subrounded fine to coarse flint, brick, slate, clinker and concrete fragments. Cobbles are brick. Sand is fine to coarse.	0.60	B02			
					1.00	(MADE GROUND)	1.00	B03			
24/07/17		Dry					1.20		N4	1, 0 / 1, 1, 1, 1	
					(0.70)		1.20-1.70	B04			
					1.70	Soft to firm, dark grey and dark brown sandy gravelly CLAY with low cobble content, rare pockets of greenish grey sandy silty clay (<15mm), occasional rootlets (<60mm) and rare decomposing leaves. Gravel comprises angular to well rounded fine to coarse flint, brick, mortar and slag fragments. Cobbles are brick. Sand is fine to coarse.	2.00		N3	1, 0 / 1, 0, 1, 1	
						(MADE GROUND)	2.00-2.45	D05			
					(2.30)		3.00		N3	1, 0 / 1, 0, 1, 1	
							3.00-3.45	D06			
						Soft, dark brown mottled reddish brown sandy very gravelly CLAY with medium cobble content, frequent pockets of dark greenish grey sandy silty clay (50mm), rare rootlets (<50mm) and rare pockets of light brown silty fine sand (<10mm). Gravel comprises angular to subrounded fine to coarse flint and brick. Cobbles are brick. Sand is fine to coarse.	3.50	D07			
					4.00	(MADE GROUND)	4.00		N11	1, 2 / 2, 3, 3, 3	
							4.00-4.45	D08			
							4.00-4.50	B09			
24/07/17	2.50	Dry				Soft, grey mottled brown slightly gravelly silty CLAY with occasional rootlets (<40mm). Gravel is angular to subrounded fine to medium flint and rare brick fragments (from above).					
25/07/17	2.50	Dry				(LANGLEY SILT)					
25/07/17	5.00	Dry				2.00 ... becoming bluish grey with rare pockets of black silty clay (<5mm) and no gravel	5.50-5.95	UT10	25 blows	100% Recovery	
					(3.00)	3.00 - 3.45 ... becoming dark grey mottled brown with rare pockets of brown silty fine sand (<5mm) and occasional black flecks	6.00	D11			
						3.50 ... with frequent black flecks					
						Firm, brown mottled grey and occasionally orangish brown silty CLAY with occasional rootlets (<15mm).					
					7.00	(THAMES GROUP: WEATHERED LONDON CLAY FORMATION)	7.00		N18	2, 3 / 3, 5, 5, 5	
							7.00-7.45	D12			
						Firm, dark greyish brown silty CLAY with rare pockets of dark grey clayey silt. (THAMES GROUP: LONDON CLAY FORMATION - B)					
							8.50-8.95	UT13	45 blows	100% Recovery	
						8.50 ... becoming extremely closely fissured slightly micaceous slightly sandy with rare bioturbation and white flecks	9.00	D14			
						9.00 ... becoming stiff					
							10.00		N26	3, 4 / 6, 6, 7, 7	
							10.00-10.45	D15			

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Borehole No

BH01

Project

55 Fitzroy Park

Job No	Date Started	Ground Level (mOD)	Co-Ordinates	Final Depth
17/3003	24/07/17			30.00m
	Date Completed 25/07/17			

Client	Method/ Plant Used	Sheet
LBH Wembley Engineering	Cable Percussion	2 of 3

PROGRESS			STRATA				SAMPLES & TESTS				
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result	Field Records	Instrument/ Backfill
							11.50-11.95	UT16	70 blows	100% Recovery	
						11.50 ... becoming extremely closely to very closely fissured. Fissures are multiple orientations, planar, smooth	12.00	D17			
							13.00		N32	5, 5 / 7, 7, 8, 10	
						13.00 ... with occasional fine sand size selenite crystals	13.00-13.45	D18			
							14.50-14.95	UT19	75 blows	100% Recovery	
							15.00	D20			
							16.00		N31	4, 5 / 6, 8, 8, 9	
						16.00 ... with 1No bivalve shell	16.00-16.45	D21			
							17.50-17.95	UT22	85 blows	100% Recovery	
							18.00	D23			
					(23.00)		19.00		N33	5, 6 / 6, 8, 9, 10	
							19.00-19.45	D24			
							20.50-20.95	UT25			
						20.50 ... with a pyritised wood fragment (20x20mm)	21.00	D26			
						21.00 ... becoming closely fissured. Fissures are subvertical, subhorizontal, planar, smooth					
							22.00		N41	6, 7 / 9, 9, 11, 12	

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Borehole No

BH01

Project

55 Fitzroy Park

Job No	Date Started	Ground Level (mOD)	Co-Ordinates	Final Depth
17/3003	24/07/17			30.00m
	Date Completed 25/07/17			

Client	Method/ Plant Used	Sheet
LBH Wembley Engineering	Cable Percussion	3 of 3

PROGRESS			STRATA				SAMPLES & TESTS				
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result	Field Records	Instrument/ Backfill
						22.00 ... becoming very stiff with occasional bioturbation (<10mm)	22.00-22.45	D27			
							23.50-23.95	UT28	100 blows	100% Recovery	
						24.00 ... with subvertical to 45° fissures	24.00	D29			
						24.05 ... with a pyrite nodule (25x30mm)					
							25.00		N42	5, 7 / 8, 10, 11, 13	
						25.00 ... with frequent fine to medium sand size selenite crystals	25.00-25.45	D30			
							26.50-26.95	UT31	95 blows	100% Recovery	
							27.00	D32			
							28.50		N49	4, 6 / 9, 13, 13, 14	
							28.50-28.95	D33			
							29.50-29.95	UT34	100 blows	100% Recovery	
25/07/17	5.00	Dry			30.00		30.00	D35			
						End of Borehole					

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Borehole No

BH02

Project

55 Fitzroy Park

Job No	Date Started	Ground Level (mOD)	Co-Ordinates	Final Depth
17/3003	26/07/17			30.00m
	Date Completed 27/07/17			

Client

LBH Wembley Engineering

BOREHOLE SUMMARY

Top (m)	Base (m)	Type	Date Started	Date Ended	Crew	Logged By	Core Barrel (mm)	Core Bit	Plant Used/ Method	SPT Hammer Reference
0.00	1.20	IP	26/07/2017	26/07/2017	JM	OB			Hand Excavated	
1.20	30.00	CP	26/07/2017	27/07/2017	JM	OB			Dando 2000	SEDS6

WATER STRIKES

Strike at (m)	Rise to (m)	Time to Rise (min)	Casing Depth (m)	Sealed (m)
3.00	3.00	20		

WATER ADDED

From (m)	To (m)

CHISELLING / SLOW DRILLING

From (m)	To (m)	Duration (hr)	Remarks

HOLE

Depth (m)	Diameter (mm)
0.00	150
30.00	150

CASING

Depth (m)	Diameter (mm)
0.00	150
5.00	150

ROTARY RECOVERY

From (m)	To (m)	Blows	Recovery (%)

ROTARY FLUSH DETAIL

From (m)	To (m)	Flush Type	Flush Return (%)	Flush Colour

INSTALLATION DETAILS

Type	Diameter (mm)	Depth of Installation (m)	Top of Response Zone (m)	Bottom of Response Zone (m)	Date of Installation
SPG/GW	50	5.00	4.00	5.00	27/07/2017

BACKFILL DETAILS

Top (m)	Bottom (m)	Material	Backfill Date
0.00	0.30	Concrete / Flush Cover	27/07/2017
0.30	4.00	Bentonite Pellets	
4.00	5.00	Pea Shingle	
5.00	6.00	Bentonite Pellets	
6.00	30.00	Cement / Bentonite Grout	

Issue No: 01	Checked By: AN	Approved By: OS	Log Print Date & Time: 15/09/2017 13:27

CONCEPT
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Borehole No

BH02

Project

55 Fitzroy Park

Job No	Date Started	Ground Level (mOD)	Co-Ordinates	Final Depth
17/3003	26/07/17			30.00m
	Date Completed 27/07/17			

Client

LBH Wembley Engineering

PROGRESS

Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)	Remarks
25/07/17	0.00		Dry	
25/07/17	1.20		Dry	
25/07/17	3.00		3.00	... Water Strike
25/07/17	5.00	5.00	Dry	
25/07/17	22.50	5.00	Dry	
26/07/17	22.50	5.00	Dry	
26/07/17	30.00	5.00	Dry	

SPT DETAILS

Type	Depth (m)	N Value	Blow Count / 75mm	Casing Depth (m)	Water Depth (m)
S	1.20	N1	1, 0 / 0, 1, 0, 0		Dry
S	2.00	N5	1, 1 / 2, 1, 1, 1		Dry
S	3.00	N4	1, 1 / 1, 1, 1, 1		3.00
S	4.00	N10	1, 2 / 2, 2, 3, 3		3.00
S	5.00	N8	1, 1 / 2, 1, 2, 3	5.00	Dry
S	8.50	N16	2, 3 / 3, 4, 4, 5	5.00	Dry
S	11.50	N24	3, 4 / 5, 5, 7, 7	5.00	Dry
S	14.50	N27	4, 5 / 5, 7, 7, 8	5.00	Dry
S	17.50	N32	3, 5 / 5, 7, 9, 11	5.00	Dry
S	20.50	N35	4, 6 / 7, 8, 10, 10	5.00	Dry
S	23.50	N34	3, 7 / 7, 8, 9, 10	5.00	Dry
S	26.50	N41	4, 7 / 8, 10, 11, 12	5.00	Dry
S	29.50	N48	5, 8 / 10, 11, 13, 14	5.00	Dry

GENERAL REMARKS

1. Water seepage encountered at 3.00m depth and staying.

KEY

SAMPLES

ES - Environmental Sample (Tub, Vial, Jar)
U - 100mm Diameter Undisturbed Sample
UT - 100mm Diameter Thin Wall Undisturbed Sample
U38 - 38mm Diameter Undisturbed Sample
D - Disturbed Sample, B-Bulk Sample, LB- Large Bulk Sample, BLK-Block Sample
C - Core Sample, W-Water Sample, R-Root Sample

INSTALLATION DETAILS

SPIE - Standpipe Piezometer
SPGW - Groundwater Monitor Standpipe
SPG/GW - Gas / Groundwater Monitor Standpipe
VWP - Vibrating Wire Piezometer
ICM - Inclinometer

HOLE TYPES

IP -Inspection Pit, TP-Trial Pit TT - Trial Trench
CP -Cable Percussion, RC-Rotary Coring, R/S-Rotary/Sonic
DS -Dynamic Sampling, DS/R-Dynamic Sampling /Rotary
DC -Diamond Coring, CP/R-Cable Percussion Rotary follow on

TESTS S/C-SPT / CPT, V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds

Note: All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

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Borehole No

BH02

Project

55 Fitzroy Park

Job No	Date Started	Ground Level (mOD)	Co-Ordinates	Final Depth
17/3003	26/07/17			30.00m
	Date Completed 27/07/17			

Client	Method/ Plant Used	Sheet
LBH Wembley Engineering	Cable Percussion	1 of 3

PROGRESS			STRATA				SAMPLES & TESTS				
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result	Field Records	Instrument/ Backfill
25/07/17		Dry			(1.00) 1.00	Very soft, dark brown sandy very gravelly SILT with low cobble content, frequent pockets of brown silty sandy gravelly clay (<60mm), with occasional rootlets (<25mm), rare ceramic fragments (<40mm), 1No timber (<125mm) and 1No plastic fragments. Gravel comprises angular to rounded fine to coarse flint, brick and mortar fragments. Cobbles are brick and mortar. Sand is fine to coarse. (MADE GROUND)	0.20	B01			
							0.60	B02			
							1.00	B03			
25/07/17		Dry			1.20		1.20		N1	1, 0 / 0, 1, 0, 0	
					(0.80) 2.00	0.80 ... with 1No flint cobble, 1No granite cobble and 2No oyster shell fragments	1.20-1.65	D04			
							1.20-1.70	B05			
					(1.00) 3.00	Very soft, greyish brown mottled orangish brown gravelly very sandy CLAY with 1No weak dark red sandstone cobble and 1No off-white chalk fragment. Gravel comprises angular to rounded fine to coarse flint and rare brick fragments. Sand is fine to coarse. (MADE GROUND)	2.00		N5	1, 1 / 2, 1, 1, 1	
							2.00-2.45	D06			
25/07/17		3.00					3.00		N4	1, 1 / 1, 1, 1, 1	
					(1.00) 4.00	Very soft, dark grey locally mottled orangish brown slightly gravelly sandy silty CLAY with 1No weak dark reddish brown sandstone fragment. Gravel comprises angular to subrounded fine to coarse flint and rare brick fragments. Sand is fine. (MADE GROUND)	3.00-3.45	D07			
							4.00		N10	1, 2 / 2, 2, 3, 3	
					(4.30) 8.30	Soft, dark grey occasionally mottled orangish brown silty CLAY with rare rootlets, 1No tile fragment (<10mm), 1No coarse gravel size brick fragment and 1No well rounded medium flint gravel. (MADE GROUND)	4.00-4.45	D08			
25/07/17	5.00	Dry				Soft, grey mottled orangish brown silty CLAY with occasional fine to medium gravel size brick fragments (from SPT). (LANGLEY SILT)	5.00		N8	1, 1 / 2, 1, 2, 3	
						Firm, orangish brown mottled grey slightly micaceous silty CLAY with rare pockets of light brown silty fine sand (<20mm) and rare rootlets (<10mm). (THAMES GROUP: WEATHERED LONDON CLAY FORMATION)	5.50-5.95	D09			
							7.00-7.45	UT10	35 blows	100% Recovery	
						7.00 ... becoming extremely closely fissured with frequent selenite crystals (<15mm), occasional pockets of orangish brown fine sand with fine to medium size selenite crystals. Fissures are multiple orientations, planar, smooth, unpolished	7.50	D11			
						Firm, dark brownish grey silty CLAY with rare pockets of dark grey silt (<10mm) and rare bioturbation. (THAMES GROUP: LONDON CLAY FORMATION)	8.50		N16	2, 3 / 3, 4, 4, 5	
							8.50-8.95	D12			
							10.00-10.45	UT13	45 blows	100% Recovery	
						10.00 ... becoming extremely closely fissured slightly micaceous slightly sandy with white flecks	10.50	D14			
						10.50 ... with no bioturbation					

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Borehole No

BH02

Project

55 Fitzroy Park

Job No	Date Started	Ground Level (mOD)	Co-Ordinates	Final Depth
17/3003	26/07/17			30.00m
	Date Completed 27/07/17			

Client	Method/ Plant Used	Sheet
LBH Wembley Engineering	Cable Percussion	2 of 3

PROGRESS			STRATA				SAMPLES & TESTS				
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result	Field Records	Instrument/ Backfill
							11.50 11.50-11.95	D15	N24	3, 4 / 5, 5, 7, 7	
							13.00-13.45	UT16	90 blows	100% Recovery	
						13.50 ... becoming stiff	13.50	D17			
						14.50 - 14.95 .... with occasional to frequent bioturbation (<10mm) and 1No subvertical, planar, smooth, unpolished fissure (<40mm)	14.50 14.50-14.95	D18	N27	4, 5 / 5, 7, 7, 8	
							16.00-16.45	UT19	90 blows	100% Recovery	
						16.16 ... with a pyrite nodule (25x25mm)	16.50	D20			
						16.50 ... with 1No parting of greyish brown silty fine sand and 1No rounded pyrite nodule (<30mm)					
						17.50 ... with frequent black flecks	17.50 17.50-17.95	D21	N32	3, 5 / 5, 7, 9, 11	
							19.00-19.45	UT22	80 blows	100% Recovery	
					(21.70)	19.12 ... with a pyrite nodule (30x45mm)	19.50	D23			
						19.50 ... becoming very stiff with no black flecks					
							20.50 20.50-20.95	D24	N35	4, 6 / 7, 8, 10, 10	
							22.00-22.45	UT25	80 blows	100% Recovery	

Issue No: 01	Checked By: AN	Approved By: OS	Log Print Date & Time: 15/09/2017 13:27

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Borehole No

BH02

Project

55 Fitzroy Park

Job No	Date Started	Ground Level (mOD)	Co-Ordinates	Final Depth
17/3003	26/07/17			30.00m
	Date Completed 27/07/17			

Client	Method/ Plant Used	Sheet
LBH Wembley Engineering	Cable Percussion	3 of 3

PROGRESS			STRATA				SAMPLES & TESTS				
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result	Field Records	Instrument/ Backfill
25/07/17	5.00	Dry					22.50	D26			
26/07/17	5.00	Dry				22.50 ... with 2No intersecting at 45°, planar to undulating, smooth, unpolished fissures					
							23.50		N34	3, 7 / 7, 8, 9, 10	
						23.50 ... with occasional black flecks	23.50-23.95	D27			
							25.00-25.45	UT28	100 blows	100% Recovery	
							25.50	D29			
						25.50 ... becoming very closely fissured with 1No vertical fissure and no black flecks. Fissures are subhorizontal, planar, smooth, unpolished					
							26.50		N41	4, 7 / 8, 10, 11, 12	
							26.50-26.95	D30			
							28.00-28.45	UT31	90 blows	100% Recovery	
							28.50	D32			
						28.50 ... with randomly orientated, planar to undulating fissures					
							29.50		N48	5, 8 / 10, 11, 13, 14	
						29.50 ... with frequent bioturbation and 1No shell fragment	29.50-29.95	D33			
26/07/17	5.00	Dry			30.00						
						End of Borehole					

Issue No: 01	Checked By: AN	Approved By: OS	Log Print Date & Time: 15/09/2017 13:27

Southern Testing
Environmental & Geotechnical

SPT Hammer Energy Test Report

in accordance with BSEN ISO 22476-3:2005

Southern Testing Laboratories Ltd
Unit 11
Charlwoods Road
East Grinstead
West Sussex
RH19 2HU

SPT Hammer Ref:	SEDS6.
Test Date:	29/04/2017
Report Date:	29/04/2017
File Name:	SEDS6..spt
Test Operator:	NPB

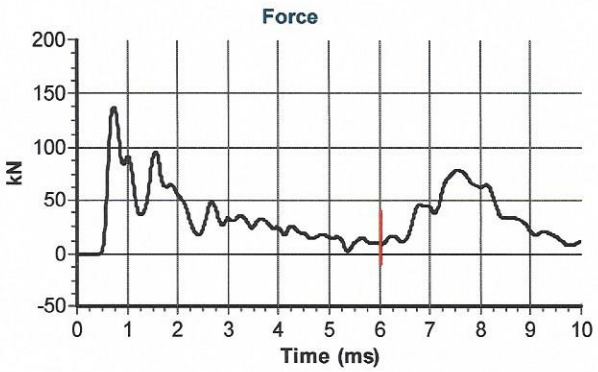
Instrumented Rod Data

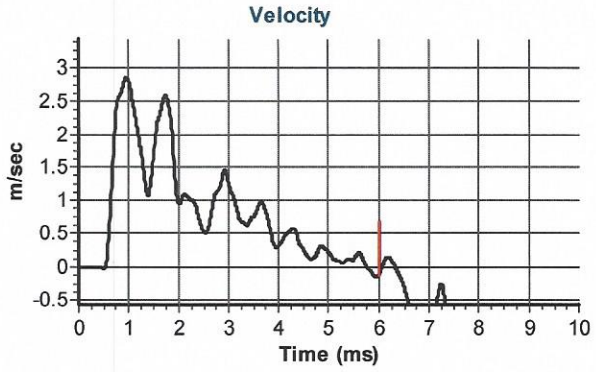
Diameter d_r (mm):	54
Wall Thickness t_r (mm):	6.0
Assumed Modulus E_a (GPa):	200
Accelerometer No.1:	6458
Accelerometer No.2:	9607

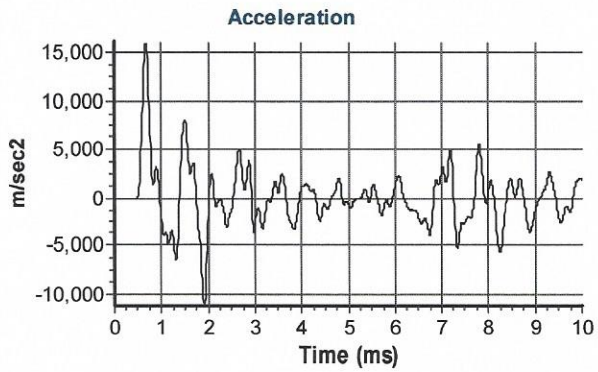
SPT Hammer Information

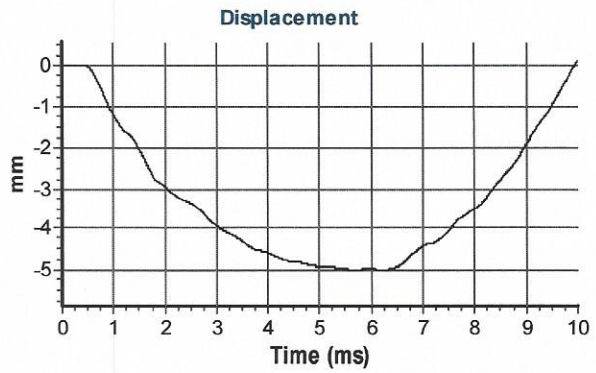
Hammer Mass m (kg):	63.5
Falling Height h (mm):	750
SPT String Length L (m):	14.5

Comments / Location









Calculations

Area of Rod A (mm2):	905
Theoretical Energy E_{theor} (J):	473
Measured Energy E_{meas} (J):	305

Energy Ratio E_r (%): **64**

N P Burrows

Signed: N P Burrows
Title: Field Operations Manager

The recommended calibration interval is 12 months

9. DYNAMIC SAMPLING BOREHOLE LOGS

CONCEPT
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Trial Pit No

BH04

Project

55 Fitzroy Park

Job No	Date Started	Ground Level (mOD)	Co-Ordinates	Final Depth
17/3003	03/08/17			1.20m
	Date Completed 03/08/17			

Client	Method/ Plant Used	Sheet
LBH Wembley Engineering	Hand Excavated	1 of 1

STRATA					SAMPLES & TESTS			
Water	Level (mOD)	Legend	Depth *(Thickness)*	Stata Description	Depth	Type No	Test Result	Field Records
			(1.20)	Grass over very soft, dark grey to black silty gravelly CLAY with rare pockets of brown silty clay (<30mm), frequent rootlets (<60mm) and rare ceramic fragments (<30mm). Gravel comprises subangular to well-rounded fine to coarse flint and brick fragments. (MADE GROUND)	0.00-0.50	B01		
				0.50 ... becoming slightly sandy with 1No brick cobble and rare roots (<150mm). Pockets becoming <15mm	0.50-1.00	B02		
			1.20	End of Trial Pit				... Pit aborted at 1.20m depth (see Remarks)

GENERAL REMARKS

1. Pit aborted at 1.20m depth due to soft, uneven ground unsuitable for drilling rig.

Issue No: 00	Drilled By: ME	Logged By: OB	Checked By: AN	Approved By: OS	Log Print Date & Time: 15/09/2017 13:28

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Borehole No

BH06

Project

55 Fitzroy Park

Job No	Date Started	Ground Level (mOD)	Co-Ordinates	Final Depth
17/3003	31/07/17			5.00m
	Date Completed 31/07/17			

Client	Method/ Plant Used	Sheet
LBH Wembley Engineering	Dynamic Sampling	1 of 1

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
31/07/17		Dry			(1.00) 1.00	Grass over very soft, dark brown slightly gravelly silty CLAY with frequent rootlets (<90mm). Gravel is angular to subrounded fine to coarse flint, brick and clinker fragments. (MADE GROUND) 0.70 ... becoming dark grey with occasional wood fragments (<80mm)	0.30	B01			
							0.70	B02			
							1.00-2.00	B03			
31/07/17	1.20	Dry			(1.00) 2.00	Very soft, brown mottled dark greenish grey, light grey and black slightly sandy gravelly silty CLAY with occasional rootlets (<30mm) and rare wood fragments (<30mm). Gravel comprises angular to subrounded fine to medium flint, brick and clinker fragments. Sand is fine to coarse. (MADE GROUND)	2.00-3.00	B04			
					(1.00) 3.00	Very soft, brown mottled orangish brown and grey slightly gravelly silty CLAY with occasional rootlets (<40mm) and 1No bone fragment (<90mm). Gravel comprises subangular to rounded fine to medium flint and brick fragments. (MADE GROUND)	3.00-4.00	B05			
					(2.00) 5.00	Very soft, brown mottled grey and dark grey silty CLAY with 1No pocket of light grey silt (<20mm) and rare pockets of orangish brown fine sand (<20mm). (MADE GROUND) 4.00 - 5.00 ... with occasional pockets of black organic clay (<40mm), 1No bone fragment (45mm) and no pockets of sand	4.00-5.00	B06			
31/07/17	2.00	Dry				End of Borehole					

DYNAMIC SAMPLING RECOVERY

From	To	Diameter (mm)	Recovery (%)

GENERAL REMARKS

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø101mm casing used to 2.00m depth.
3. Liners were recovered into bulk bags.
4. Ø19mm gas and groundwater monitoring pipe installed at 5.00m, slotted between 4.00m and 5.00m depth.
5. Borehole was backfilled with pea shingle between 5.00m and 4.00m depth and bentonite pellets between 4.00m and 0.30m depth. Concrete with a stopcock cover installed between 0.30m and ground level.

Issue No: 00	Drilled By: ME	Logged By: OB	Checked By: AN	Approved By: OS	Log Print Date & Time: 15/09/2017 13:28

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Borehole No

BH07

Project

55 Fitzroy Park

Job No	Date Started	Ground Level (mOD)	Co-Ordinates	Final Depth
17/3003	31/07/17			5.00m
	Date Completed 31/07/17			

Client	Method/ Plant Used	Sheet
LBH Wembley Engineering	Dynamic Sampling	1 of 1

PROGRESS			STRATA				SAMPLES & TESTS				
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result	Field Records	Instrument/ Backfill
31/07/17		Dry			(1.50)	Grass over soft, dark brownish grey sandy gravelly silty CLAY with occasional pockets of brown silty clay (<40mm), frequent rootlets (<60mm) and rare tile fragments (<30mm). Gravel comprises subangular to subrounded fine to coarse flint with rare brick and concrete fragments. Sand is fine to coarse. (MADE GROUND)	0.00-0.50	B01			
							0.50-1.00	B02			
31/07/17	1.20	Dry					1.20-2.00	B03			
					1.50	0.50 - 1.00 ... with frequent pockets of brown silty clay and 1No glass fragment (<20mm) 1.00 ... with no pockets of clay and no brick or concrete fragments					
						Firm, orangish brown mottled grey and occasionally orange silty CLAY with rare rootlets (<40mm), rare dark grey flecks and 1No subangular coarse flint gravel. (THAMES GROUP: WEATHERED LONDON CLAY FORMATION)	2.00		N9	1, 1 / 2, 2, 2, 3	
							2.00-3.00	B04			
							2.00	D05			
					(3.50)		3.00		N11	2, 1 / 2, 3, 3, 3	
							3.00-4.00	B06			
							3.00	D07			
							4.00		N12	2, 2 / 2, 2, 3, 5	
							4.00-5.00	B08			
							4.00	D09			
31/07/17	2.00	Dry			5.00		5.00		N16	4, 2 / 4, 4, 4, 4	
						End of Borehole	5.00	D10			

DYNAMIC SAMPLING RECOVERY

From	To	Diameter (mm)	Recovery (%)

GENERAL REMARKS

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø101mm casing used to 2.00m depth.
3. Liners were recovered into bulk bags.
4. Ø19mm gas and groundwater monitoring pipe installed at 2.50m, slotted between 1.50m and 2.50m depth.
5. Borehole was backfilled with bentonite pellets between 5.00 and 2.50m, pea shingle between 2.50m and 1.50m depth and bentonite pellets between 1.50m and 0.30m depth. Concrete with a stopcock cover installed between 0.30m and ground level.

Issue No: 00	Drilled By: ME	Logged By: OB	Checked By: AN	Approved By: OS	Log Print Date & Time: 15/09/2017 13:28

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Borehole No

BH08

Project
55 Fitzroy Park

Job No	Date Started	Ground Level (mOD)	Co-Ordinates	Final Depth
17/3003	03/08/17			2.00m
	Date Completed 03/08/17			

Client	Method/ Plant Used	Sheet
LBH Wembley Engineering	Dynamic Sampling	1 of 1

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
03/08/17		Dry			(0.70) 0.70	Grass over very soft, dark grey mottled brown slightly gravelly sandy silty CLAY with occasional rootlets (<80mm). Gravel comprises angular to well-rounded fine to coarse flint, brick and clinker fragments. Sand is fine to medium. (MADE GROUND)	0.00-0.50	B01			
							0.50-1.00	B02			
03/08/17	1.20	Dry			(1.30)	Very soft, brown mottled light grey and orangish brown slightly gravelly silty CLAY. Gravel is angular to well-rounded fine to medium flint. (THAMES GROUP: WEATHERED LONDON CLAY FORMATION)					
03/08/17	2.00	Dry			2.00	1.35 ... becoming firm and brown mottled grey with occasional black flecks and no gravel 1.55 ... with occasional fine to medium sand size selenite crystals					
						End of Borehole					

DYNAMIC SAMPLING RECOVERY

From	To	Diameter (mm)	Recovery (%)
1.20	2.00	84	100

GENERAL REMARKS

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø101mm casing used to 2.00m depth.
3. Ø19mm gas and groundwater monitoring pipe installed at 2.00m, slotted between 1.00m and 2.00m depth.
4. Borehole was backfilled with pea shingle between 2.00m and 1.00m depth and bentonite pellets between 1.00m and 0.30m depth. Concrete with a stopcock cover installed between 0.30m and ground level.

Issue No: 00	Drilled By: ME	Logged By: OB	Checked By: AN	Approved By: OS	Log Print Date & Time: 15/09/2017 13:28

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Borehole No

BH10

Project

55 Fitzroy Park

Job No	Date Started	Ground Level (mOD)	Co-Ordinates	Final Depth
17/3003	28/07/17			4.00m
	Date Completed 28/07/17			

Client	Method/ Plant Used	Sheet
LBH Wembley Engineering	Dynamic Sampling	1 of 1

PROGRESS			STRATA				SAMPLES & TESTS				
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result	Field Records	Instrument/ Backfill
28/07/17		Dry			0.30	Asphalt (0.10m) over slightly sandy GRAVEL with medium cobble content. Gravel is angular to subangular fine to coarse brick and concrete fragments. Sand is fine to coarse. Cobbles are brick and concrete. (MADE GROUND)					
					(0.90)						
28/07/17	1.20	Dry			1.20	Soft, dark brown and black very gravelly silty CLAY. Gravel comprises angular to rounded fine to coarse flint and brick fragments. (MADE GROUND)	1.20-2.00	B01			
					(1.30)	Soft, grey mottled brown and light bluish grey slightly gravelly SILT with occasional rootlets (<40mm) and occasional reddish brown staining. Gravel comprises angular to rounded fine to coarse flint and rare brick fragments. (MADE GROUND)	2.00-3.00	B02			
					2.50						
					(0.50)	Soft, brown slightly gravelly silty CLAY with occasional pockets of light brown fine sand (<30mm). Gravel is subangular to rounded medium to coarse flint. (MADE GROUND)	3.00-4.00	B03			
					3.00						
					(1.00)	Soft, dark grey mottled brown and bluish grey slightly gravelly silty CLAY with occasional pockets of bluish grey silt (<25mm) and occasional reddish brown staining. Gravel is subangular to rounded fine to coarse flint. (LANGLEY SILT)					
28/07/17	2.00	Dry			4.00		4.00			... Borehole aborted at 4.00m depth (see Remarks)	
						End of Borehole					

DYNAMIC SAMPLING RECOVERY

From	To	Diameter (mm)	Recovery (%)

GENERAL REMARKS

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø101mm casing used to 2.00m depth.
3. Liners were recovered into bulk bags.
4. Borehole aborted at 4.00m depth due to collapse.
5. Borehole backfilled with bentonite pellets.

Issue No: 00	Drilled By: ME	Logged By: OB	Checked By: AN	Approved By: OS	Log Print Date & Time: 15/09/2017 13:28

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Borehole No

BH11

Project

55 Fitzroy Park

Job No	Date Started	Ground Level (mOD)	Co-Ordinates	Final Depth
17/3003	02/08/17			5.00m
	Date Completed 02/08/17			

Client	Method/ Plant Used	Sheet
LBH Wembley Engineering	Dynamic Sampling	1 of 1

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
02/08/17		Dry			(0.50) 0.50	Very soft, dark grey to black slightly gravelly sandy silty CLAY with frequent pockets of brown clay (<90mm), rare pockets of white silt (<5mm) and rare rootlets (<10mm). Gravel comprises subangular to subrounded fine to medium flint, brick and clinker fragments. Sand is fine to coarse. (MADE GROUND)	0.00-0.50	B01			
							0.50-1.00	B02			
02/08/17	1.20	Dry			(0.70) 1.20	Soft, brown and grey slightly gravelly sandy silty CLAY with rare pockets of light brown fine to medium sand (<30mm), frequent rootlets (<50mm) and 1No ceramic fragment (10mm). Gravel comprises angular to subrounded fine to coarse flint, brick and mortar fragments. Sand is fine to coarse. (MADE GROUND)					
					(0.95) 2.15	Very soft, dark grey and black mottled grey and brown slightly gravelly silty CLAY with rare ceramic fragments (<15mm). Gravel is angular to subrounded fine to coarse flint and brick fragments. (MADE GROUND) 1.80 ... with 1No shell fragment (25mm)					
					(0.95) 3.10	Soft, grey mottled brown and occasionally bluish grey silty CLAY with rare rootlets. (LANGLEY SILT) 2.60 ... with 1No wood fragment (100mm) 2.90 - 3.00 ... with no silt					
					(1.90)	Firm, brown silty CLAY with occasional rootlets (<40mm). (THAMES GROUP: WEATHERED LONDON CLAY FORMATION) 3.30 ... becoming mottled grey 3.40 ... with occasional black flecks 3.70 ... with rare pockets of orangish brown clayey silt (<8mm) 4.85 ... with 1No parting of orangish brown clayey silt					
02/08/17	2.00	Dry			5.00	End of Borehole					

DYNAMIC SAMPLING RECOVERY

From	To	Diameter (mm)	Recovery (%)
1.20	2.00	100	90
2.00	3.00	100	85
3.00	4.00	74	100
4.00	5.00	64	75

GENERAL REMARKS

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø128mm casing used to 2.00m depth.
3. Ø19mm gas and groundwater monitoring pipe installed at 4.50m, slotted between 3.50m and 4.50m depth.
4. Borehole was backfilled with pea shingle between 5.00m and 3.50m depth and bentonite pellets between 3.50m and 0.30m depth. Concrete with a stopcock cover installed between 0.30m and ground level.

Issue No: 00	Drilled By: ME	Logged By: OB	Checked By: AN	Approved By: OS	Log Print Date & Time: 15/09/2017 13:28

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Borehole No

BH12

Project
55 Fitzroy Park

Job No	Date Started	Ground Level (mOD)	Co-Ordinates	Final Depth
17/3003	03/08/17			3.00m
	Date Completed 03/08/17			

Client	Method/ Plant Used	Sheet
LBH Wembley Engineering	Dynamic Sampling	1 of 1

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
03/08/17		Dry			(1.60)	Very soft, brown sandy gravelly silty CLAY with frequent rootlets (<40mm). Gravel comprises subangular to well-rounded fine to coarse flint and brick fragments. Sand is fine to coarse. (MADE GROUND)	0.00-0.50	B01			
						0.00 - 0.50 ... with 1No concrete cobble and 1No marble fragment	0.50-1.00	B02			
03/08/17	1.20	Dry				0.50 - 1.00 ... with frequent fine to medium gravel size clinker fragments, rare tile fragments (<20mm) and 1No well-rounded flint cobble					
					1.60	1.20 ... becoming soft, dark greyish brown and slightly gravelly					
					(1.40)	Soft, brown mottled orangish brown and grey silty CLAY with frequent rootlets (<40mm). (THAMES GROUP: WEATHERED LONDON CLAY FORMATION)					
						1.75 - 2.00 ... becoming mottled grey with rare rootlets					
						2.65 ... with 1No pocket of orangish brown sandy silt (25mm)					
03/08/17	2.00	Dry			3.00	2.70 ... becoming firm and slightly micaceous					
						End of Borehole					

DYNAMIC SAMPLING RECOVERY

From	To	Diameter (mm)	Recovery (%)
1.20	2.00	100	100
2.00	3.00	100	70

GENERAL REMARKS

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø128mm casing used to 2.00m depth.
3. Ø19mm gas and groundwater monitoring pipe installed at 3.00m, slotted between 2.00m and 3.00m depth.
4. Borehole was backfilled with pea shingle between 3.00m and 2.00m depth and bentonite pellets between 2.00m and 0.30m depth. Concrete with a stopcock cover installed between 0.30m and ground level.

Issue No: 00	Drilled By: ME	Logged By: OB	Checked By: AN	Approved By: OS	Log Print Date & Time: 15/09/2017 13:28

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Borehole No

BH13

Project
55 Fitzroy Park

Job No	Date Started	Ground Level (mOD)	Co-Ordinates	Final Depth
17/3003	28/07/17			5.00m
	Date Completed 28/07/17			

Client	Method/ Plant Used	Sheet
LBH Wembley Engineering	Dynamic Sampling	1 of 2

PROGRESS			STRATA				SAMPLES & TESTS				
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result	Field Records	Instrument/ Backfill
28/07/17		Dry			0.10	Asphalt. (MADE GROUND)	0.00-0.50	B01			
					(0.40) 0.50	Loose, dark greyish brown and black silty very gravelly fine to coarse SAND with occasional pockets of brown sandy clay (<40mm) and occasional rootlets (<40mm). Gravel comprises subangular to rounded fine to coarse flint, brick, mortar and clinker fragments. Sand is fine to coarse. (MADE GROUND)	0.50-1.00	B02			
28/07/17	1.20	Dry			(1.55)						
					2.05	Very soft, dark grey and brown sandy gravelly CLAY with rare ceramic fragments (<10mm). Gravel is angular to subrounded fine to coarse flint, brick, mortar and clinker fragments. Sand is fine to coarse. (MADE GROUND)	2.00	D03			
					(0.40) 2.45	0.50 - 1.00 ... with 1No flint cobble and 1No clay pipe fragment					
						1.20 ... becoming soft, dark brown mottled brown with occasional ceramic fragments (<30mm), rare glass fragments (<15mm) and rare wood fragments (<50mm)	3.00-4.00	B04			
						1.50 ... with 2No subangular medium gravel size chalk fragments					
						1.70 ... with 1No shell fragment (15mm)					
						1.80 ... with 1No subrounded flint cobble					
					(2.55)	Firm, brown mottled orangish brown silty CLAY with occasional rootlets (<30mm). (MADE GROUND)					
						2.10 ... with 1No coarse gravel size brick fragment					
						2.40 ... becoming very gravelly. Gravel comprises subangular to rounded fine to coarse flint and brick fragments					
28/07/17	2.00	Dry			5.00	Firm, dark grey slightly sandy gravelly silty CLAY with rare rootlets (<50mm). Gravel is subangular to well-rounded fine to coarse flint. Sand is fine. (LANGLEY SILT)	5.00	N12		1, 2 / 3, 3, 3, 3	
						2.70 ... becoming brownish grey with fine to medium gravel and 1No wood fragment (90mm x 40mm)	5.00	D05			
						2.95 ... with 1No subangular coarse flint gravel					
						3.00 ... becoming grey mottled brown and orangish brown with occasional black flecks and no gravel					
						4.00 ... becoming firm and brownish grey mottled grey and orangish brown					
						4.50 ... with 1No subangular medium flint gravel					

DYNAMIC SAMPLING RECOVERY

From	To	Diameter (mm)	Recovery (%)
1.20	2.00	74	88
3.00	4.00	84	75
4.00	5.00	74	100

GENERAL REMARKS

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø101mm casing used to 2.00m depth.
3. Ø19mm gas and groundwater monitoring pipe installed at 5.00m, slotted between 4.00m and 5.00m depth.
4. Borehole was backfilled with pea shingle between 5.00m and 4.00m depth and bentonite pellets between 4.00m and 0.30m depth. Concrete with a stopcock cover installed between 0.30m and ground level.

Issue No: 00	Drilled By: ME	Logged By: OB	Checked By: AN	Approved By: OS	Log Print Date & Time: 15/09/2017 13:28

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Borehole No

BH13

Project
55 Fitzroy Park

Job No	Date Started	Ground Level (mOD)	Co-Ordinates	Final Depth
17/3003	28/07/17			5.00m
	Date Completed 28/07/17			

Client	Method/ Plant Used	Sheet
LBH Wembley Engineering	Dynamic Sampling	2 of 2

PROGRESS			STRATA				SAMPLES & TESTS				
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result	Field Records	Instrument/ Backfill
						4.60 ... with a parting of orangish brown silt 4.65 ... with 2No rounded medium flint gravels 4.95 ... with a parting of orangish brown sandy silt					
						End of Borehole					

DYNAMIC SAMPLING RECOVERY

From	To	Diameter (mm)	Recovery (%)

GENERAL REMARKS

Issue No: 00	Drilled By: ME	Logged By: OB	Checked By: AN	Approved By: OS	Log Print Date & Time: 15/09/2017 13:28

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Borehole No

BH14

Project

55 Fitzroy Park

Job No	Date Started	Ground Level (mOD)	Co-Ordinates	Final Depth
17/3003	01/08/17			5.00m
	Date Completed 01/08/17			

Client	Method/ Plant Used	Sheet
LBH Wembley Engineering	Dynamic Sampling	1 of 1

PROGRESS			STRATA				SAMPLES & TESTS				
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result	Field Records	Instrument/ Backfill
01/08/17		Dry			(1.45)	Firm, dark brown and brown slightly sandy gravelly silty CLAY with frequent rootlets (<40mm). Gravel comprises angular to rounded fine to medium flint, brick, mortar and clinker fragments. Sand is fine to coarse. (MADE GROUND) 0.00 - 0.50 ... with 1No oyster shell 0.50 ... with 1No glass fragment (110mm) and 1No subrounded brick cobble. Gravel becoming fine to coarse	0.00-0.50	B01			
							0.50-1.00	B02			
01/08/17	1.20	Dry			1.45	1.20 ... with rare rootlets and no concrete or clinker fragments					
					(3.55)	Firm, brown mottled orangish brown slightly gravelly silty CLAY with rare rootlets (<60mm) and occasional black flecks. Gravel is subangular to subrounded fine to medium flint. (THAMES GROUP: WEATHERED LONDON CLAY FORMATION) 2.30 ... with no orangish brown mottling 2.40 ... with 1No wood fragment (50mm) 2.60 ... with 1No subrounded medium gravel size reddish brown claystone fragment within a pocket of orangish brown silt (40mm) 2.85 ... with 1No pocket of orangish brown silty fine sand (10mm) 3.30 ... becoming mottled grey	1.80	D03			
							2.00		N9	1, 1 / 2, 2, 2, 3	
							2.00	D04			
							2.00	D05			
							2.50	D06			
							3.00		N12	1, 2 / 3, 3, 2, 4	
							3.00	D07			
							3.50	D08			
							4.00		N12	6, 4 / 2, 3, 3, 4	
							4.00	D09			
01/08/17	2.00	Dry			5.00	4.35 ... with a band of light brown angular medium gravel size claystone fragments 4.40 ... with 1No parting of orangish brown clayey silt	5.00		N18	3, 3 / 4, 4, 5, 5	
						4.43 ... with 1No pocket of fine to medium sand size selenite crystals (<40mm) 4.45 - 4.65 ... with rare fine to coarse sand size selenite crystals 4.63 ... with 2No angular medium flint gravels 4.85 ... becoming extremely closely fissured and slightly micaceous. Fissures are horizontal, planar, smooth, unpolished 4.90 ... becoming very stiff with frequent selenite crystals	5.00	D10			
						End of Borehole					

DYNAMIC SAMPLING RECOVERY

From	To	Diameter (mm)	Recovery (%)
1.20	2.00	84	94
2.00	3.00	74	68
3.00	4.00	64	95
4.00	5.00	54	70

GENERAL REMARKS

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø101mm casing used to 2.00m depth.
3. Ø19mm gas and groundwater monitoring pipe installed at 2.50m, slotted between 1.50m and 2.50m depth.
4. Borehole was backfilled with bentonite pellets between 5.00m and 2.50m depth, pea shingle between 2.50m and 1.50m depth and bentonite pellets between 1.50m and 0.30m depth. Concrete with a stopcock cover installed between 0.30m and ground level.

Issue No: 00	Drilled By: ME	Logged By: OB	Checked By: AN	Approved By: OS	Log Print Date & Time: 15/09/2017 13:28

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Borehole No

BH15

Project

55 Fitzroy Park

Job No	Date Started	Ground Level (mOD)	Co-Ordinates	Final Depth
17/3003	02/08/17			4.00m
	Date Completed 02/08/17			

Client	Method/ Plant Used	Sheet
LBH Wembley Engineering	Dynamic Sampling	1 of 1

PROGRESS			STRATA				SAMPLES & TESTS				
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result	Field Records	Instrument/ Backfill
02/08/17		Dry			(0.50) 0.50	Very soft, brown mottled orangish brown sandy gravelly CLAY with occasional ceramic fragments (<100mm) and occasional glass fragments (<30mm). Gravel comprises angular to subrounded fine to coarse flint, brick, clinker and slate fragments. Sand is fine to coarse. (MADE GROUND)	0.00-0.50	B01			
							0.50-1.00	B02			
02/08/17	1.20	Dry			(0.70) 1.20	Soft, brown sandy very gravelly CLAY with frequent pockets of grey silty fine sand (<80mm), rare ceramic fragments and 1No brick cobble. Gravel comprises angular to subrounded fine to coarse brick and clinker fragments. (MADE GROUND)					
					(0.35) 1.55						
					(0.75) 2.30	Soft to firm, brown mottled orangish brown slightly gravelly sandy CLAY with occasional pockets of grey silty fine sand and occasional rootlets (<50mm). Gravel comprises angular to rounded fine to coarse flint and brick fragments. (MADE GROUND)					
					(1.70)	Very soft, dark brownish grey slightly sandy silty CLAY with frequent black flecks. Sand is fine. (LANGLEY SILT) 1.60 ... with 1No rounded medium flint gravel 1.75 ... with 1No angular medium flint gravel 1.85 ... becoming greyish brown 2.00 ... becoming soft with occasional pockets of orangish brown silty clay (<20mm), rare rootlets (<20mm) and no sand					
02/08/17	2.00	Dry			4.00	Soft, brown CLAY with occasional rootlets (<20mm). (THAMES GROUP: WEATHERED LONDON CLAY FORMATION) 2.80 ... becoming firm, orangish brown mottled grey 3.00 ... becoming silty with rare pockets of orangish brown silty fine sand (<15mm) 3.70 ... with 1No parting of orangish brown sandy silt					
						End of Borehole					

DYNAMIC SAMPLING RECOVERY

From	To	Diameter (mm)	Recovery (%)
1.20	2.00	84	100
2.00	3.00	84	100
3.00	4.00	74	80

GENERAL REMARKS

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø101mm casing used to 2.00m depth.
3. Ø19mm gas and groundwater monitoring pipe installed at 3.50m, slotted between 2.50m and 3.50m depth.
4. Borehole was backfilled with bentonite pellets between 4.00m and 3.50m depth, pea shingle between 3.50m and 2.50m depth and bentonite pellets between 2.50m and 0.30m depth. Concrete with a stopcock cover installed between 0.30m and ground level.

Issue No: 00	Drilled By: ME	Logged By: OB	Checked By: AN	Approved By: OS	Log Print Date & Time: 15/09/2017 13:28

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Borehole No

BH17

Project

55 Fitzroy Park

Job No	Date Started	Ground Level (mOD)	Co-Ordinates	Final Depth
17/3003	01/08/17			2.00m
	Date Completed 01/08/17			

Client	Method/ Plant Used	Sheet
LBH Wembley Engineering	Dynamic Sampling	1 of 1

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
01/08/17		Dry			(0.50) 0.50	Grass over soft, brown sandy gravelly silty CLAY with frequent rootlets. Gravel comprises angular to rounded fine to coarse flint, brick and concrete fragments. Sand is fine to coarse. (MADE GROUND)	0.00-0.50	B01			
							0.50-1.00	B02			
					(0.50) 1.00	Soft, dark brown sandy gravelly clayey SILT with frequent rootlets and occasional pockets of soft, dark brown sandy clay (<30mm). Gravel comprises subangular to rounded fine to coarse flint and brick fragments. Sand is fine to coarse. (MADE GROUND)					
01/08/17	1.20	Dry			(0.45) 1.45	Firm, brown mottled orangish brown slightly sandy silty CLAY with frequent rootlets (<60mm). Sand is fine to medium. (MADE GROUND) 1.40 ... with 1No fine gravel size brick fragment					
					(0.55) 2.00	Stiff, brown silty CLAY with frequent rootlets (<50mm). (THAMES GROUP: WEATHERED LONDON CLAY FORMATION) 1.55 ... with occasional black flecks					
01/08/17	2.00	Dry				End of Borehole					

DYNAMIC SAMPLING RECOVERY

From	To	Diameter (mm)	Recovery (%)
1.20	2.00	84	100

GENERAL REMARKS

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø101mm casing used to 2.00m depth.
3. Ø19mm gas and groundwater monitoring pipe installed at 2.00m, slotted between 1.00m and 2.00m depth.
4. Borehole was backfilled with pea shingle between 2.00m and 1.00m depth and bentonite pellets between 1.00m and 0.30m depth. Concrete with a stopcock cover installed between 0.30m and ground level.

Issue No: 00	Drilled By: ME	Logged By: OB	Checked By: AN	Approved By: OS	Log Print Date & Time: 15/09/2017 13:28

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Borehole No

BH18

Project
55 Fitzroy Park

Job No	Date Started	Ground Level (mOD)	Co-Ordinates	Final Depth
17/3003	03/08/17			3.60m
	Date Completed 03/08/17			

Client	Method/ Plant Used	Sheet
LBH Wembley Engineering	Dynamic Sampling	1 of 1

PROGRESS			STRATA				SAMPLES & TESTS				
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result	Field Records	Instrument/ Backfill
03/08/17		Dry			(1.10)	Soft, dark brownish grey slightly sandy gravelly silty CLAY with occasional rootlets (<50mm). Gravel is angular to rounded fine to coarse flint and brick fragments. Sand if fine to coarse. (MADE GROUND)	0.00-0.50	B01			
						0.50 ... with frequent roots (<200mm) and rare glass fragments (<25mm).	0.50-1.00	B02			
03/08/17	1.20	Dry			1.10	Gravel comprises flint, brick, mortar, concrete and clinker fragments					
					(1.10)	Firm, brown mottled orangish brown gravelly silty CLAY with occasional rootlets (<60mm). Gravel comprises angular to rounded fine to coarse flint, brick and rare chalk fragments. (MADE GROUND)					
					2.20	1.40 - 1.60 ... becoming dark grey with slate fragments					
						1.70 ... with mortar fragments	2.50	D03			
					(1.40)	Firm, brown mottled orangish brown and grey CLAY with occasional roots (<150mm). (THAMES GROUP: WEATHERED LONDON CLAY FORMATION)					
						2.40 ... becoming stiff					
						2.70 ... becoming silty					
						3.00 ... with rare rootlets					
03/08/17	2.00	Dry			3.60	3.45 ... with rare pockets of orangish brown silty fine sand	3.60	D04			
						End of Borehole					

DYNAMIC SAMPLING RECOVERY

From	To	Diameter (mm)	Recovery (%)
1.20	2.00	84	100
2.00	3.00	84	100
3.00	3.60	74	100

GENERAL REMARKS

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø101mm casing used to 2.00m depth.
3. Ø19mm gas and groundwater monitoring pipe installed at 3.50m, slotted between 2.50m and 3.50m depth.
4. Borehole was backfilled with bentonite pellets between 5.00m and 3.50m depth, pea shingle between 3.50m and 2.50m depth and bentonite pellets between 2.50m and 0.30m depth. Concrete with a stopcock cover installed between 0.30m and ground level.

Issue No: 00	Drilled By: ME	Logged By: OB	Checked By: AN	Approved By: OS	Log Print Date & Time: 15/09/2017 13:28

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Borehole No

BH19

Project

55 Fitzroy Park

Job No	Date Started	Ground Level (mOD)	Co-Ordinates	Final Depth
17/3003	01/08/17			5.00m
	Date Completed 01/08/17			

Client	Method/ Plant Used	Sheet
LBH Wembley Engineering	Dynamic Sampling	1 of 1

PROGRESS			STRATA				SAMPLES & TESTS				
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result	Field Records	Instrument/ Backfill
01/08/17		Dry			(0.40) 0.40	Soft, dark brown mottled orangish brown sandy gravelly silty CLAY with frequent rootlets (<50mm). Gravel comprises angular to subrounded fine to coarse flint and brick fragments. Sand is fine to coarse. (MADE GROUND)	0.00-0.50	B01			
							0.50-1.00	B02			
					(0.80)						
01/08/17	1.20	Dry			1.20	Soft, brown mottled orangish brown slightly sandy gravelly silty CLAY with occasional rootlets (<20mm). Gravel is angular to subrounded fine to medium flint. Sand is fine. (THAMES GROUP: WEATHERED LONDON CLAY FORMATION)	1.50	D03			
						Firm, brown mottled orangish brown and grey silty CLAY. with occasional rootlets (<30mm) and occasional black flecks. (THAMES GROUP: WEATHERED LONDON CLAY FORMATION)	2.00		N8	1, 2 / 2, 2, 2, 2	
							2.00	D04			
						2.00 ... becoming locally mottled orangish brown with no grey mottling	2.50	D05			
						2.75 ... becoming mottled grey with rare rootlets (<30mm)	3.00		N11	2, 2 / 2, 3, 3, 3	
							3.00	D06			
					(3.80)		3.00	D07			
						3.40 ... with 1No parting of orangish brown silt and fine sand size selenite crystals					
						3.65 ... becoming locally mottled grey with rare pockets of fine sand size selenite crystals (<10mm)	4.00		N15	3, 3 / 3, 4, 4, 4	
							4.00	D08			
						3.82 ... with 1No pocket of orange silty fine sand and fine sand size selenite crystals (<35mm)					
						4.60 ... becoming mottled orangish brown and grey with frequent fine sand size selenite crystals					
01/08/17	2.00	Dry			5.00	4.85 ... with no selenite crystals	5.00		N20	4, 4 / 5, 5, 5, 5	
						End of Borehole	5.00	D09			

DYNAMIC SAMPLING RECOVERY

From	To	Diameter (mm)	Recovery (%)
1.20	2.00	84	75
2.00	3.00	74	100
3.00	4.00	64	90
4.00	5.00	54	75

GENERAL REMARKS

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø101mm casing used to 2.00m depth.
3. Ø19mm gas and groundwater monitoring pipe installed at 2.00m, slotted between 1.00m and 2.00m depth.
4. Borehole was backfilled with bentonite pellets between 5.00m and 2.00m depth, pea shingle between 2.00m and 1.00m depth and bentonite pellets between 1.00m and 0.30m depth. Concrete with a stopcock cover installed between 0.30m and ground level.

Issue No: 00	Drilled By: ME	Logged By: OB	Checked By: AN	Approved By: OS	Log Print Date & Time: 15/09/2017 13:28

CONCEPT
Unit 8, Warple Mews, Warple Way
W3 0RF
Telephone: 020 88 112 880_Fax: 020 88 112 881
E-mail: si@conceptconsultants.co.uk

Borehole No

BH20

Project
55 Fitzroy Park

Job No	Date Started	Ground Level (mOD)	Co-Ordinates	Final Depth
17/3003	01/08/17			2.00m
	Date Completed 01/08/17			

Client	Method/ Plant Used	Sheet
LBH Wembley Engineering	Dynamic Sampling	1 of 1

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
01/08/17		Dry			(0.40) 0.40	Very soft, dark brown sandy gravelly CLAY with frequent rootlets (<80mm) and 1No glass fragment (30mm). Gravel comprises subangular to rounded fine to coarse flint and brick fragments. Sand is fine to coarse. (MADE GROUND)	0.00-0.50	B01			
							0.50-1.00	B02			
01/08/17	1.20	Dry			(1.60)	Firm, brown mottled orangish brown slightly sandy slightly gravelly silty CLAY with occasional rootlets (<40mm). Gravel is subangular to subrounded fine to medium flint. Sand is fine. (THAMES GROUP: WEATHERED LONDON CLAY FORMATION)					
01/08/17	2.00	Dry			2.00	1.20 ... with rare rootlets, no mottling and no sand or gravel 1.65 ... with 1No pocket of orange sandy silt (35mm) 1.75 ... becoming mottled grey End of Borehole					

DYNAMIC SAMPLING RECOVERY

From	To	Diameter (mm)	Recovery (%)
1.20	2.00	74	100

GENERAL REMARKS

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø101mm casing used to 2.00m depth.
3. Ø19mm gas and groundwater monitoring pipe installed at 2.00m, slotted between 1.00m and 2.00m depth.
4. Borehole was backfilled with pea shingle between 2.00m and 1.00m depth and bentonite pellets between 1.00m and 0.30m depth. Concrete with a stopcock cover installed between 0.30m and ground level.

Issue No: 00	Drilled By: ME	Logged By: OB	Checked By: AN	Approved By: OS	Log Print Date & Time: 15/09/2017 13:28

CONCEPT
Unit 8, Warple Mews, Warple Way
W3 0RF
Telephone: 020 88 112 880_Fax: 020 88 112 881
E-mail: si@conceptconsultants.co.uk

Borehole No

BH21

Project

55 Fitzroy Park

Job No	Date Started	Ground Level (mOD)	Co-Ordinates	Final Depth
17/3003	04/08/17			3.00m
	Date Completed 04/08/17			

Client	Method/ Plant Used	Sheet
LBH Wembley Engineering	Dynamic Sampling	1 of 1

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
04/08/17		Dry			(1.20)	Very soft, dark brown to black sandy gravelly silty CLAY with frequent roots, frequent rootlets, rare ceramic fragments (<100mm) and rare charcoal fragments (<30mm). Gravel comprises angular to well-rounded fine flint and brick fragments. Sand is fine to coarse. (MADE GROUND)	0.00-0.50	B01			
						0.50 ... becoming brown mottled dark brown with occasional rootlets (<20mm) and no ceramic fragments	0.50-1.00	B02			
04/08/17	1.20	Dry			1.20						
					(1.80)	Firm, brown CLAY with occasional pockets of orangish brown silty clay (<10mm) and rare rootlets (<30mm). (THAMES GROUP: WEATHERED LONDON CLAY FORMATION) 1.70 ... becoming silty 1.90 ... with 1No pocket of fine gravel size off-white silty nodules (30mm) 2.25 ... with 1No pocket of orange silt (50mm) 2.35 ... becoming mottled grey 2.70 ... becoming slightly micaceous with rare pockets of light brown silty fine sand					
04/08/17	2.00	Dry			3.00						
						End of Borehole					

DYNAMIC SAMPLING RECOVERY

From	To	Diameter (mm)	Recovery (%)
1.20	2.00	74	100
2.00	3.00	74	90

GENERAL REMARKS

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø101mm casing used to 2.00m depth.
3. Ø19mm gas and groundwater monitoring pipe installed at 3.00m, slotted between 2.00m and 3.00m depth.
4. Borehole was backfilled with pea shingle between 3.00m and 2.00m depth and bentonite pellets between 2.00m and 0.30m depth. Concrete with a stopcock cover installed between 0.30m and ground level.

Issue No: 00	Drilled By: ME	Logged By: OB	Checked By: AN	Approved By: OS	Log Print Date & Time: 15/09/2017 13:28

Southern Testing
Environmental & Geotechnical

SPT Hammer Energy Test Report

in accordance with BSEN ISO 22476-3:2005

Southern Testing Laboratories
Keeble House
Stuart Way
East Grinstead
West Sussex
RH19 4QA

SPT Hammer Ref:	TERRIER
Test Date:	01/06/2017
Report Date:	01/06/2017
File Name:	TERRIER.spt
Test Operator:	NPB

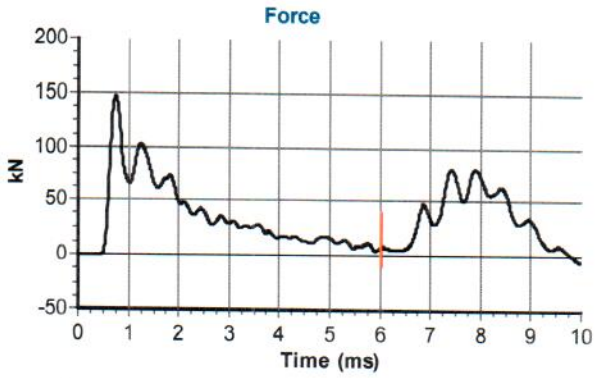
Instrumented Rod Data

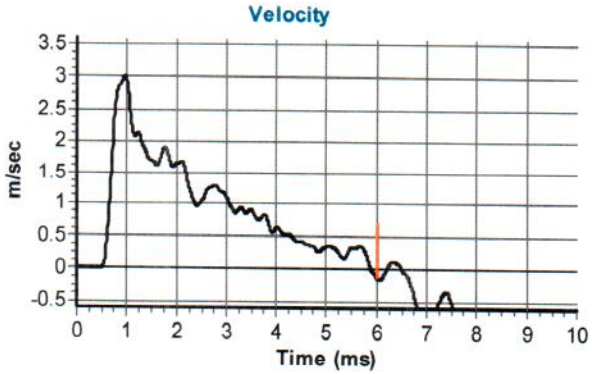
Diameter d_r (mm):	54
Wall Thickness t_r (mm):	6.0
Assumed Modulus E_a (GPa):	200
Accelerometer No.1:	6458
Accelerometer No.2:	9607

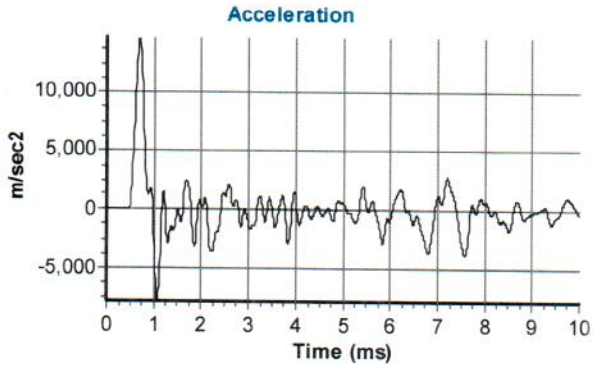
SPT Hammer Information

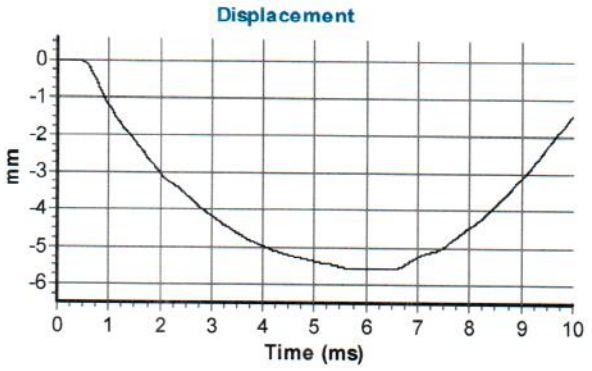
Hammer Mass m (kg):	63.5
Falling Height h (mm):	750
SPT String Length L (m):	14.5

Comments / Location
CHARLWOODS









Calculations

Area of Rod A (mm2):	905
Theoretical Energy E_{theor} (J):	473
Measured Energy E_{meas} (J):	328

Energy Ratio E_r (%): **69**

Signed: Neil Burrows
Title: Field Operations Manager

The recommended calibration interval is 12 months

10. GEOTECHNICAL LABORATORY TEST RESULTS

CONCEPT SITE INVESTIGATIONS

Site Name:	55 Fitzroy Park	**Job No.:**	17/3003
Client:	LBH Wembley Engineering	**Date Reported:**	13/09/2017

Summary Test Report

Determination of Moisture Content and Liquid and Plastic Limits

Borehole No.	Sample Type	Sample No.	Depth m	Description	Natural Moisture Content %	[1.] Passing 425 µm sieve %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Remarks
BH01	B	04	1.20	Brown mottled bluish grey slightly gravelly silty CLAY. Gravel comprises fine to medium flint and brick fragments	35	95	72	28	44	
BH01	B	09	4.00	Brown mottled bluish grey orangish brown slightly sandy silty CLAY with rare pockets of silt	24	100	54	19	35	

BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method

AGS Association of Geotechnical & Geoenvironmental Specialists

UKAS TESTING

4503

Date - samples received:	26/07/2017	Checked by:	KM
Date - samples tested:	18/08/2017	Date:	04/09/2017
Approved Signatories:	L Griffin LG (Quality Manager) – K Mazerant KM (Lab Mngr)		

CONCEPT
47-49 Brunel Road, London W3 7XR
Tel: 02087401553 Email:

CONCEPT SITE INVESTIGATIONS

Site Name:	55 Fitzroy Park	**Job No.:**	17/3003
Client:	LBH Wembley Engineering	**Date Reported:**	13/09/2017

Summary Test Report

Determination of Moisture Content and Liquid and Plastic Limits

Borehole No.	Sample Type	Sample No.	Depth m	Description	Natural Moisture Content %	[1.] Passing 425 µm sieve %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Remarks
BH02	B	05	1.20	Dark brown mottled grey slightly gravelly sandy CLAY. Gravel is fine flint	36	98	44	22	22	
BH02	D	07	3.00	Dark brown mottled orangish brown slightly gravelly slightly sandy silty CLAY. Gravel is fine to medium flint	41	97	72	26	46	

BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method

AGS ASSOCIATION OF GEOTECHNICAL & GEOENVIRONMENTAL SPECIALISTS

UKAS TESTING 4503

Date - samples received:	27/07/2017	Checked by:	KM
Date - samples tested:	30/08/2017	Date:	04/09/2017
Approved Signatories:	L Griffin LG (Quality Manager) – K Mazerant KM (Lab Mngr)		

CONCEPT
47-49 Brunel Road, London W3 7XR
Tel: 02087401553 Email:

CONCEPT SITE INVESTIGATIONS

Site Name:	55 Fitzroy Park	**Job No.:**	17/3003
Client:	LBH Wembley Engineering	**Date Reported:**	13/09/2017

Summary Test Report

Determination of Moisture Content and Liquid and Plastic Limits

Borehole No.	Sample Type	Sample No.	Depth m	Description	Natural Moisture Content %	[1.] Passing 425 µm sieve %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Remarks
BH07	B	03	1.00	Orangish brown mottled grey silty CLAY	23	100	72	25	47	Sample tested between 1.70 and 2.00m
BH07	B	04	2.00	Orangish brown mottled grey CLAY	33	100	80	24	56	
BH13	D	03	2.00	Orangish brown slightly gravelly silty CLAY. Gravel is fine to medium	29	80	71	25	46	
BH13	B	04	3.00	Grey mottled brown locally orangish brown slightly sandy silty CLAY	26	100	43	16	27	Sample tested at 3.50m
BH14	D	03	1.80	Brown CLAY with rare dark grey discolouration	33	100	84	24	60	
BH14	D	06	2.50	Brown locally mottled grey slightly micaceous CLAY with rare roots	30	100	77	25	52	
BH19	D	03	1.50	Brown locally mottled bluish grey CLAY with occasional pockets of orangish brown fine sand	24	100	71	23	48	
BH19	D	07	3.00	Orangish brown locally mottled bluish grey CLAY with rare pockets of orangish brown fine sand and occasional selenite crystals	29	100	77	25	52	

BS 1377: Part 2: Clause 4.3 & 4.4: 1990 Determination of the liquid limit by the cone penetrometer method

BS 1377: Part 2: Clause 5: 1990 Determination of the plastic limit and plasticity index

BS 1377: Part 2: Clause 3.2: 1990 Determination of the moisture content by the oven drying method

AGS ASSOCIATION OF GEOTECHNICAL & GEOENVIRONMENTAL SPECIALISTS

UKAS TESTING 4503

Date - samples received:	04/08/2017	Checked by:	KM
Date - samples tested:	30/08/2017	Date:	13/09/2017
Approved Signatories:	L Griffin LG (Quality Manager) – K Mazerant KM (Lab Mngr)		

CONCEPT
47-49 Brunel Road, London W3 7XR
Tel: 02087401553 Email:

Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
Telephone: (01424) 718618
Facsimile: (01424) 729911
info@elab-uk.co.uk

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	17-13638
Issue:	1
Date of Issue:	24/08/2017
Contact:	Richard Embery
Customer Details:	Concept Engineering Consultants Ltd Unit 8, Warple Mews Warple Way London W3 0RF
Quotation No:	Q15-00395
Order No:	L1597
Customer Reference:	17/3003
Date Received:	18/08/2017
Date Approved:	24/08/2017
Details:	55 Fitzroy Park
Approved by:	

John Wilson, Operations Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683

Sample Summary

Report No.: 17-13638

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
109536	BH01 B04 1.20 - 1.70	17/08/2017	18/08/2017	Clayey loam	
109537	BH01 B09 4.00 - 4.50	17/08/2017	18/08/2017	Silty clayey loam	

Results Summary

Report No.: 17-13638

ELAB Reference	109536	109537
Customer Reference	B04	B09
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	BH01	BH01
Sample Depth (m)	1.20 - 1.70	4.00 - 4.50
Sampling Date	17/08/2017	17/08/2017

Determinand	Codes	Units	LOD		
Anions					
Water Soluble Sulphate	M	mg/l	20	183	92
Miscellaneous					
pH	M	pH units	0.1	7.8	7.6

2683

Method Summary

Report No.: 17-13638

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
pH	M	Air dried sample	23/08/2017	113	Electromeric
Water soluble anions	M	Air dried sample	22/08/2017	172	Ion Chromatography

Report Information

Report No.: 17-13638

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

Soil sample results are expressed on an air dried basis (dried at < 30°C)
Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage

Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
Telephone: (01424) 718618
Facsimile: (01424) 729911
info@elab-uk.co.uk

2683

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	17-13731
Issue:	1
Date of Issue:	31/08/2017
Contact:	Richard Embery
Customer Details:	Concept Engineering Consultants Ltd Unit 8, Warple Mews Warple Way London W3 0RF
Quotation No:	Q15-00395
Order No:	L1601
Customer Reference:	17/3003
Date Received:	25/08/2017
Date Approved:	31/08/2017
Details:	55 Fitzroy Park
Approved by:	

John Wilson, Operations Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683

Sample Summary

Report No.: 17-13731

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
110208	BH02 B05 1.20 - 1.70	25/08/2017	25/08/2017	Silty clayey loam	
110209	BH02 D07 3.00 - 3.45	25/08/2017	25/08/2017	Silty clayey loam	

Results Summary

Report No.: 17-13731

ELAB Reference	110208	110209
Customer Reference	B05	D07
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	BH02	BH02
Sample Depth (m)	1.20 - 1.70	3.00 - 3.45
Sampling Date	25/08/2017	25/08/2017

Determinand	Codes	Units	LOD		
Anions					
Water Soluble Sulphate	M	mg/l	20	170	136
Miscellaneous					
pH	M	pH units	0.1	7.2	8.3

Method Summary

Report No.: 17-13731

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
pH	M	Air dried sample	31/08/2017	113	Electromeric
Water soluble anions	M	Air dried sample	30/08/2017	172	Ion Chromatography

Report Information

Report No.: 17-13731

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"

Soil sample results are expressed on an air dried basis (dried at < 30°C)
Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

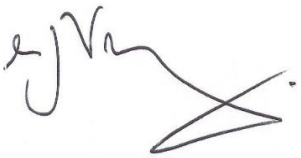
Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage

Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
Telephone: (01424) 718618
Facsimile: (01424) 729911
info@elab-uk.co.uk

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	17-13806
Issue:	1
Date of Issue:	04/09/2017
Contact:	Richard Embery
Customer Details:	Concept Engineering Consultants Ltd Unit 8, Warple Mews Warple Way London W3 0RF
Quotation No:	Q15-00395
Order No:	L1606
Customer Reference:	17/3003
Date Received:	30/08/2017
Date Approved:	04/09/2017
Details:	55 Fitzroy Park
Approved by:	

Mike Varley, Technical Manager

Any comments, opinions or interpretations expressed herein are outside the scope of UKAS accreditation (Accreditation Number 2683

Sample Summary

Report No.: 17-13806

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
110552	BH07 1.70	29/08/2017	31/08/2017	Silty loam	
110553	BH13 2.00	29/08/2017	31/08/2017	Silty clayey loam	
110554	BH14 2.00	29/08/2017	31/08/2017	Silty clayey loam	
110555	BH14 3.50	29/08/2017	31/08/2017	Clayey loam	
110556	BH18 2.50	29/08/2017	31/08/2017	Clayey loam	
110557	BH18 4.00	29/08/2017	31/08/2017	Sandy clayey loam	
110558	BH19 1.50	29/08/2017	31/08/2017	Clayey loam	
110559	BH19 2.50	29/08/2017	31/08/2017	Clayey loam	

Results Summary

Report No.: 17-13806

			ELAB Reference	110552	110553	110554	110555	110556	110557
			Customer Reference						
			Sample ID						
			Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sample Location	BH07	BH13	BH14	BH14	BH18	BH18
			Sample Depth (m)	1.70	2.00	2.00	3.50	2.50	4.00
			Sampling Date	29/08/2017	29/08/2017	29/08/2017	29/08/2017	29/08/2017	29/08/2017
Determinand	**Codes**	**Units**	**LOD**						
Anions									
Water Soluble Sulphate	M	mg/l	20	111	127	258	1820	391	210
Miscellaneous									
pH	M	pH units	0.1	7.8	7.6	7.7	7.5	7.8	7.7

Results Summary

Report No.: 17-13806

ELAB Reference	110558	110559
Customer Reference		
Sample ID		
Sample Type	SOIL	SOIL
Sample Location	BH19	BH19
Sample Depth (m)	1.50	2.50
Sampling Date	29/08/2017	29/08/2017

Determinand	Codes	Units	LOD		
Anions					
Water Soluble Sulphate	M	mg/l	20	193	224
Miscellaneous					
pH	M	pH units	0.1	7.8	7.8

2683

Method Summary

Report No.: 17-13806

Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
pH	M	Air dried sample	04/09/2017	113	Electromeric
Water soluble anions	M	Air dried sample	01/09/2017	172	Ion Chromatography

Report Information

Report No.: 17-13806

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
I/S	Insufficient Sample
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Soil sample results are expressed on an air dried basis (dried at < 30°C)
Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
PCB congener results may include any coeluting PCBs
Uncertainty of measurement for the determinands tested are available upon request

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage

CONCEPT SITE INVESTIGATIONS

Summary Test Report - Undrained Triaxial Compression (Single-Stage)

BS 1377 : Part 7: 1990 Clause 8

Date Reported: 13/09/2017

Job No.: 17/3003

Site Location: 55 Fitzroy Park

Client: LBH Wembley Engineering

BH No.	Sample Type	Sample No	Depth top (m)	Description	Cell pressure kN/m2	Strain at failure %	Bulk Density Mg/m3	Dry Density Mg/m3	NMC %	Max Dev. Stress kPa	Shear Strength kPa	Mode of failure/Comments
BH01	UT	10	5.50	Firm, extremely closely fissured brown silty CLAY with rare pockets of orangish brown silty fine sand (<20mm) and occasional bluish grey discolouration	110	15.8	1.870	1.379	36	88	44	Brittle with plastic deformation
BH01	UT	13	8.50	Firm, extremely closely fissured brownish grey slightly micaceous slightly sandy CLAY with rare bioturbation and white flecks	170	7.5	1.970	1.526	29	178	89	Brittle
BH01	UT	16	11.50	Firm to stiff, extremely closely to very closely fissured greyish brown slightly micaceous CLAY with rare bioturbation and white flecks	230	7.4	1.943	1.496	30	205	103	Brittle
BH01	UT	19	14.50	Stiff, extremely closely to very closely fissured greyish brown slightly micaceous CLAY with rare bioturbation and white flecks	290	5.6	1.975	1.538	28	343	172	Brittle
BH01	UT	22	17.50	Stiff, extremely closely to very closely fissured brownish grey slightly micaceous CLAY with rare bioturbation and white flecks								Insufficient testable sample (Pre-existing fissures, sample split on extrusion)
BH01	UT	25	20.50	Stiff, extremely closely fissured greyish brown slightly micaceous CLAY with rare bioturbation and white flecks	410	7.6	2.000	1.579	27	375	188	Brittle

Date - samples received: 26/07/2017

Date - samples tested: 18/08/2017

Checked by: KM Date: 04/09/2017

Approved Signatories: L Griffin LG (Quality Manager) – K Mazerant KM (Lab Mngr)

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AGS ASSOCIATION OF GEOTECHNICAL & GEOENVIRONMENTAL SPECIALISTS

UKAS TESTING
4503

CONCEPT SITE INVESTIGATIONS

Summary Test Report - Undrained Triaxial Compression (Single-Stage)

BS 1377 : Part 7: 1990 Clause 8

Date Reported: 13/09/2017

Job No.: 17/3003

Site Location: 55 Fitzroy Park

Client: LBH Wembley Engineering

BH No.	Sample Type	Sample No	Depth top (m)	Description	Cell pressure kN/m2	Strain at failure %	Bulk Density Mg/m3	Dry Density Mg/m3	NMC %	Max Dev. Stress kPa	Shear Strength kPa	Mode of failure/Comments
BH01	UT	28	23.50	Very stiff, extremely closely to very closely fissured greyish brown slightly micaceous CLAY with rare bioturbation, white flecks and a pyrite nodule (25x30mm) at 24.05m	470	4.2	2.029	1.616	26	652	326	Brittle (Sample tested between 23.55 and 23.75m)
BH01	UT	31	26.50	Very stiff, extremely closely fissured greyish brown slightly micaceous slightly sandy CLAY with rare partings of light brown fine sand, bioturbation and white flecks	530	4.7	1.986	1.607	24	348	174	Brittle
BH01	UT	34	29.50	Very stiff, extremely closely to very closely fissured greyish brown slightly micaceous CLAY with rare bioturbation, white flecks and a pyritised wood fragment (20x20mm)	590	5.6	2.006	1.594	26	376	188	Brittle

Date - samples received: 26/07/2017

Date - samples tested: 18/08/2017

Checked by: KM Date: 04/09/2017

Approved Signatories: L Griffin LG (Quality Manager) – K Mazerant KM (Lab Mngr)

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CONCEPT SITE INVESTIGATIONS

Summary Test Report - Undrained Triaxial Compression (Single-Stage)

BS 1377 : Part 7: 1990 Clause 8

Date Reported: 13/09/2017

Job No.: 17/3003

Site Location: 55 Fitzroy Park

Client: LBH Wembley Engineering

BH No.	Sample Type	Sample No	Depth top (m)	Description	Cell pressure kN/m2	Strain at failure %	Bulk Density Mg/m3	Dry Density Mg/m3	NMC %	Max Dev. Stress kPa	Shear Strength kPa	Mode of failure/Comments
BH02	UT	10	7.00	Firm, extremely closely fissured brown mottled bluish grey silty CLAY with rare selenite crystals	140	7.1	1.883	1.423	32	137	69	Brittle
BH02	UT	13	10.00	Stiff, extremely closely fissured brownish grey slightly micaceous slightly sandy CLAY with rare bioturbation and white flecks	200	5.5	1.918	1.470	30	185	93	Brittle
BH02	UT	16	13.00	Stiff, extremely closely fissured brownish grey slightly micaceous CLAY with rare bioturbation and white flecks	260	2.9	1.959	1.538	27	288	144	Brittle
BH02	UT	19	16.00	Stiff, extremely closely fissured brownish grey slightly micaceous slightly sandy CLAY with rare bioturbation and white flecks and a pyrite nodule (25x25mm) at 16.16m	320	6.9	1.940	1.533	27	267	134	Brittle (Sample tested between 16.03 and 16.23m)
BH02	UT	22	19.00	Very stiff, extremely closely to very closely fissured brownish grey slightly micaceous CLAY with rare bioturbation, white flecks and a pyrite nodule (30x45mm) at 19.12m	380	3.3	2.024	1.591	27	229	115	Brittle (Sample tested between 19.04 and 19.24m)
BH02	UT	25	22.00	Very stiff, extremely closely to very closely fissured greyish brown slightly micaceous CLAY with rare bioturbation and white flecks	440	4.7	1.993	1.564	27	251	126	Brittle

Date - samples received: 27/07/2017

Date - samples tested: 21/08/2017

Checked by: KM Date: 04/09/2017

Approved Signatories: L Griffin LG (Quality Manager) – K Mazerant KM (Lab Mngr)

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CONCEPT SITE INVESTIGATIONS

Summary Test Report - Undrained Triaxial Compression (Single-Stage)

BS 1377 : Part 7: 1990 Clause 8

Date Reported: 13/09/2017

Job No.: 17/3003

Site Location: 55 Fitzroy Park

Client: LBH Wembley Engineering

BH No.	Sample Type	Sample No	Depth top (m)	Description	Cell pressure kN/m2	Strain at failure %	Bulk Density Mg/m3	Dry Density Mg/m3	NMC %	Max Dev. Stress kPa	Shear Strength kPa	Mode of failure/Comments
BH02	UT	28	25.00	Very stiff, extremely closely to very closely fissured greyish brown slightly micaceous CLAY with rare bioturbation and white flecks	500	3.2	2.005	1.580	27	627	314	Brittle
BH02	UT	31	28.00	Very stiff, extremely closely to very closely fissured greyish brown slightly micaceous CLAY with rare bioturbation and white flecks	560	3.7	1.997	1.604	25	207	104	Brittle

Date - samples received: 27/07/2017

Date - samples tested: 22/08/2017

Checked by: KM Date: 04/09/2017

Approved Signatories: L Griffin LG (Quality Manager) – K Mazerant KM (Lab Mngr)

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11. PHOTOGRAPHS

Unit 8, Warple Mews
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CONCEPT SITE INVESTIGATIONS

Tel: 020 8811 2880
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Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH06
Carried out for	LBH Wembley Engineering	Date		Photograph	01

Photograph No 01

Unit 8, Warple Mews
Warple Way
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CONCEPT SITE INVESTIGATIONS

Tel: 020 8811 2880
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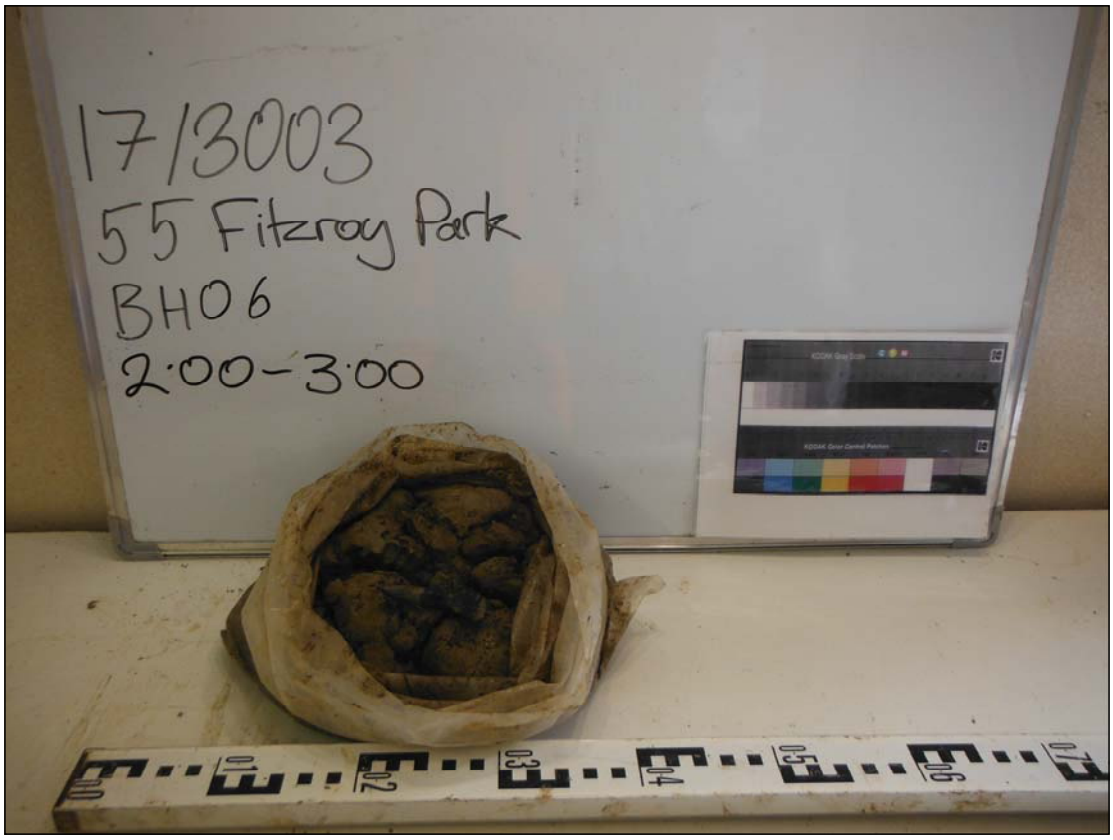
email: si@conceptconsultants.co.uk

Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH06
Carried out for	LBH Wembley Engineering	Date		Photograph	02



Photograph No 02

Unit 8, Warple Mews
Warple Way
London W3 0RF

CONCEPT SITE INVESTIGATIONS

Tel: 020 8811 2880
Fax: 020 8811 2881
email: si@conceptconsultants.co.uk

Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH06
Carried out for	LBH Wembley Engineering	Date		Photograph	03

Photograph No 03

Unit 8, Warple Mews
Warple Way
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CONCEPT SITE INVESTIGATIONS

Tel: 020 8811 2880
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Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH06
Carried out for	LBH Wembley Engineering	Date		Photograph	04

Photograph No 04

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Tel: 020 8811 2880
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Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH07
Carried out for	LBH Wembley Engineering	Date		Photograph	01

Photograph No 01

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Warple Way
London W3 0RF

CONCEPT SITE INVESTIGATIONS

Tel: 020 8811 2880
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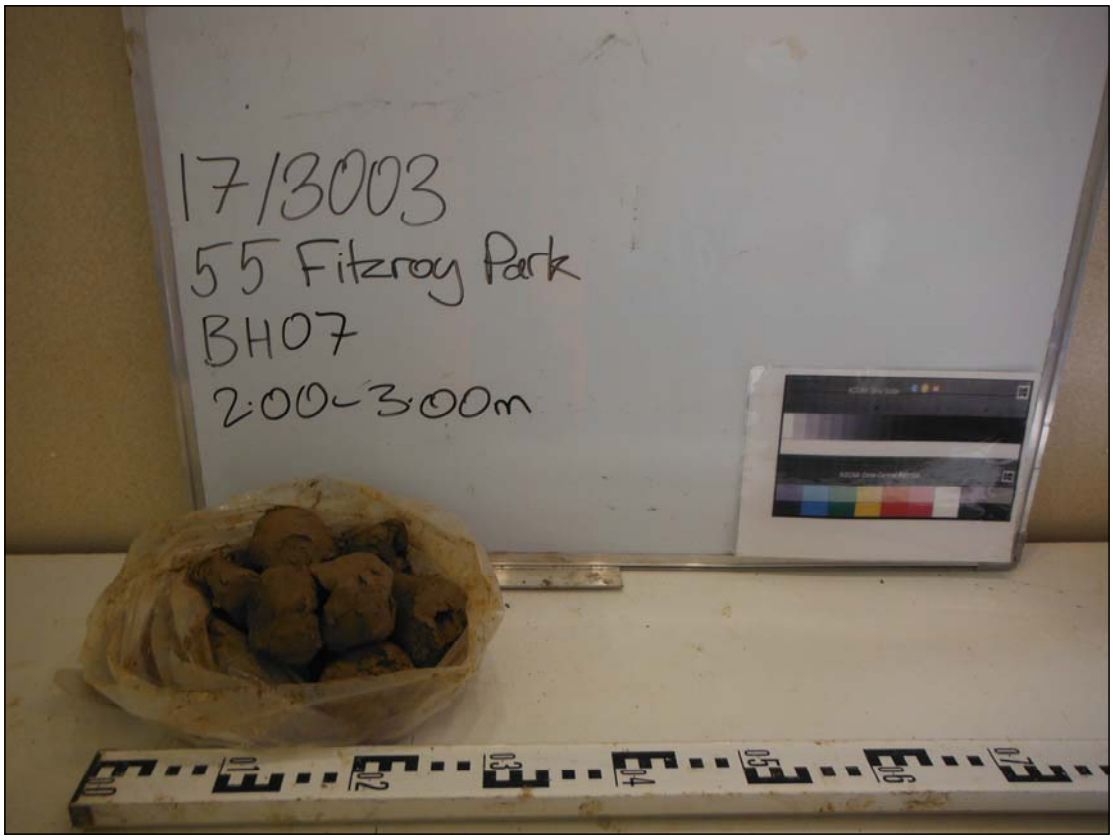
email: si@conceptconsultants.co.uk

Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH07
Carried out for	LBH Wembley Engineering	Date		Photograph	02



Photograph No 02

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Tel: 020 8811 2880
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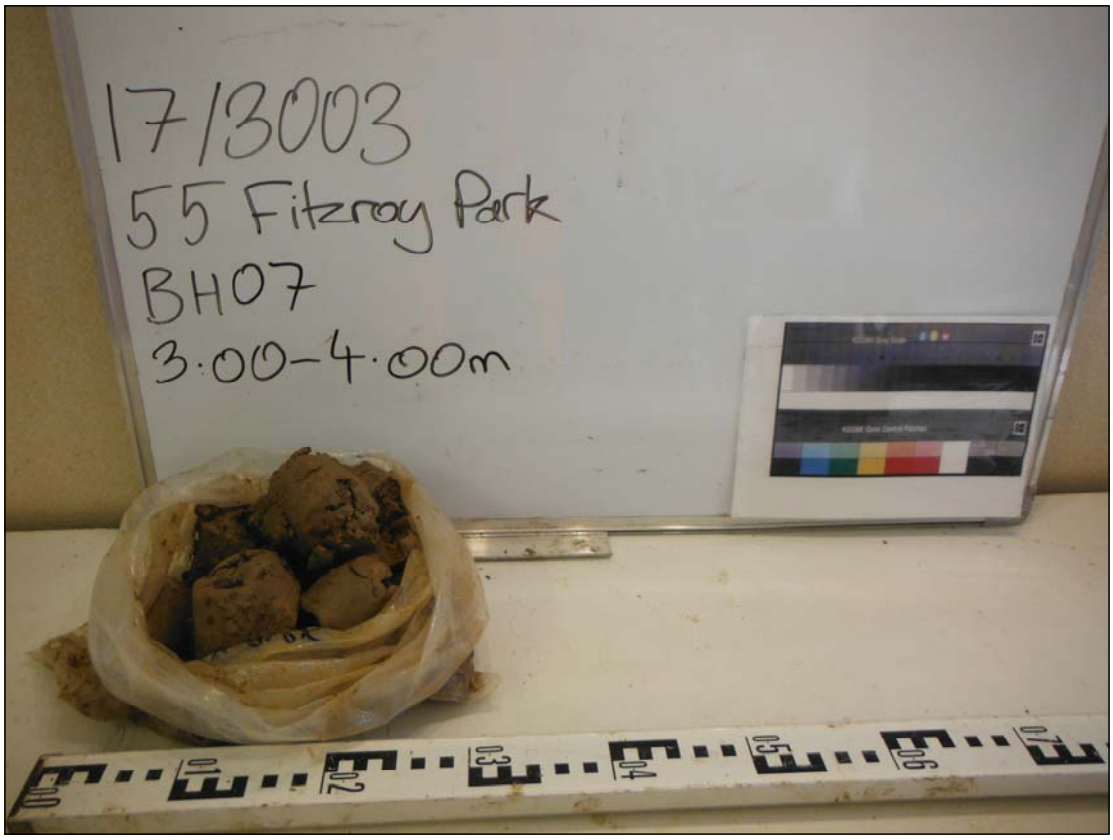
Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH07
Carried out for	LBH Wembley Engineering	Date		Photograph	03



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Tel: 020 8811 2880
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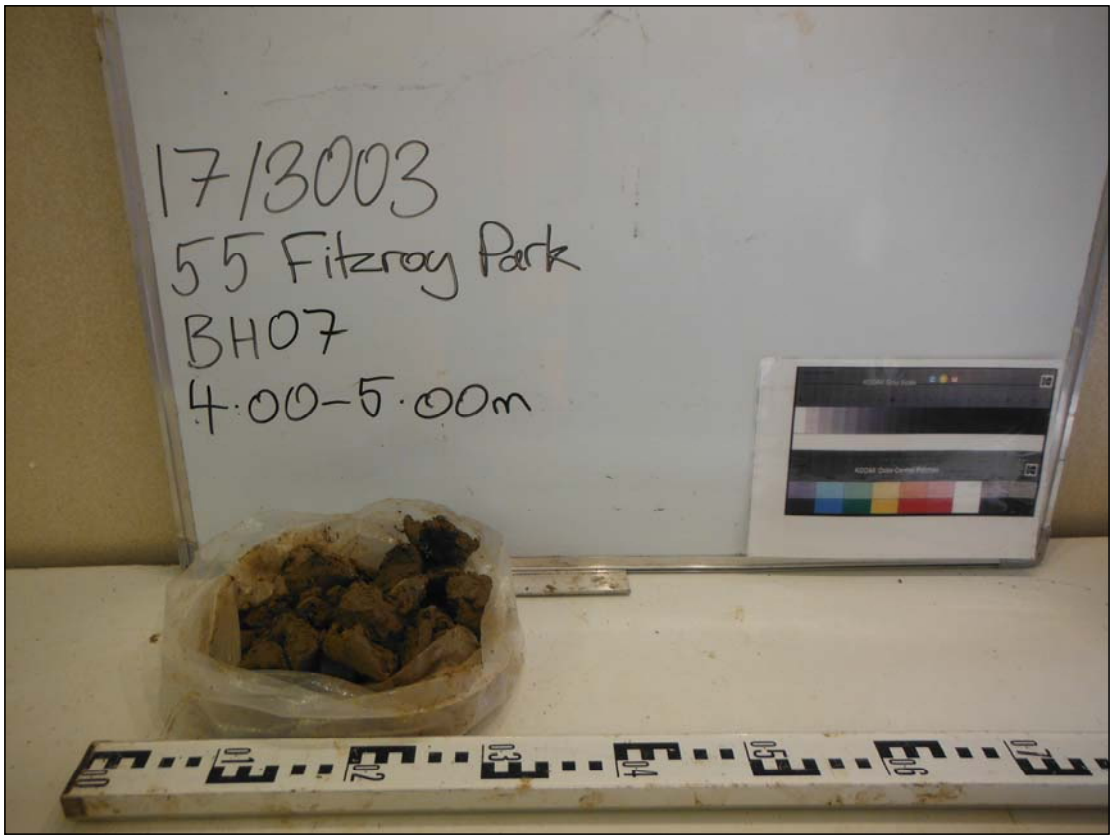
Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH07
Carried out for	LBH Wembley Engineering	Date		Photograph	04



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CONCEPT SITE INVESTIGATIONS

Tel: 020 8811 2880
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Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH08
Carried out for	LBH Wembley Engineering	Date		Photograph	01 & 02

Photograph No 01

Photograph No 02

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CONCEPT SITE INVESTIGATIONS

Tel: 020 8811 2880
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Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH10
Carried out for	LBH Wembley Engineering	Date		Photograph	01

Photograph No 01

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CONCEPT SITE INVESTIGATIONS

Tel: 020 8811 2880
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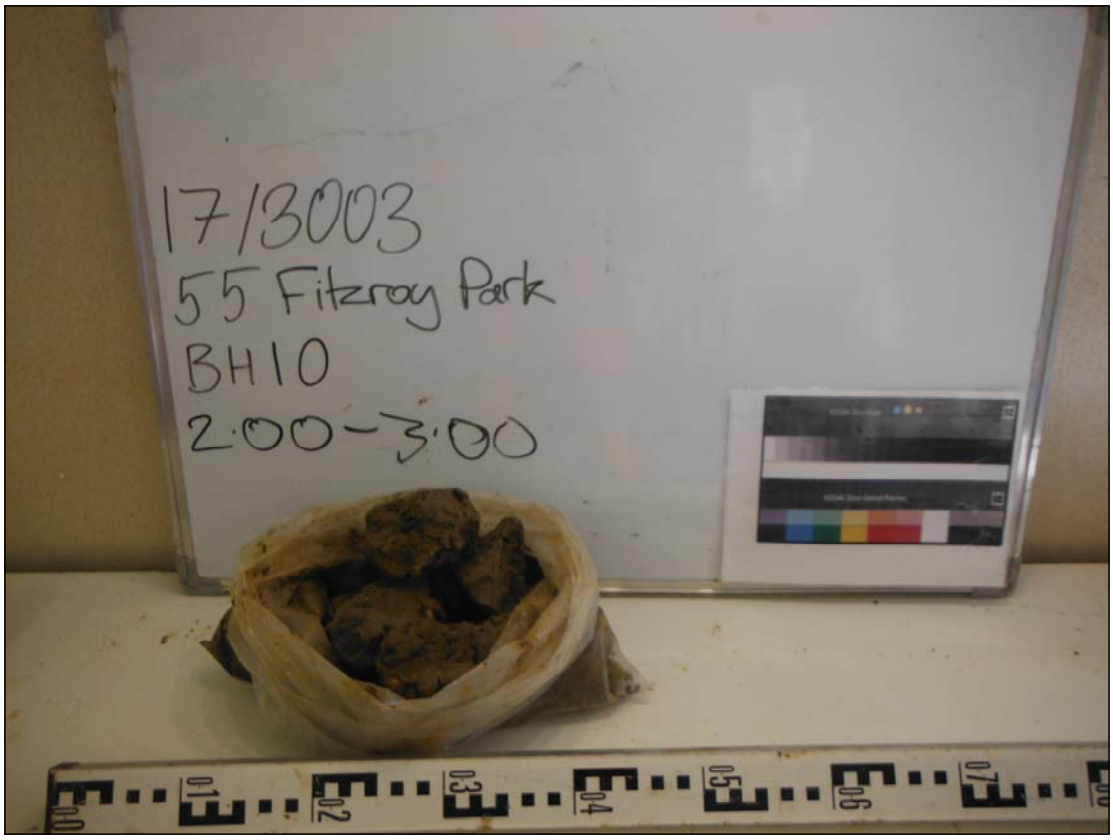
email: si@conceptconsultants.co.uk

Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH10
Carried out for	LBH Wembley Engineering	Date		Photograph	02



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CONCEPT SITE INVESTIGATIONS

Tel: 020 8811 2880
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Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH10
Carried out for	LBH Wembley Engineering	Date		Photograph	03

Photograph No 03

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CONCEPT SITE INVESTIGATIONS

Tel: 020 8811 2880
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Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH11
Carried out for	LBH Wembley Engineering	Date		Photograph	01

Photograph No 01

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Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH11
Carried out for	LBH Wembley Engineering	Date		Photograph	02

Photograph No 02

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Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH11
Carried out for	LBH Wembley Engineering	Date		Photograph	03 & 04

Photograph No 03

Photograph No 04

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CONCEPT SITE INVESTIGATIONS

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Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH11
Carried out for	LBH Wembley Engineering	Date		Photograph	05

Photograph No 05

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CONCEPT SITE INVESTIGATIONS

Tel: 020 8811 2880
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Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH12
Carried out for	LBH Wembley Engineering	Date		Photograph	01 & 02

Photograph No 01

Photograph No 02

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CONCEPT SITE INVESTIGATIONS

Tel: 020 8811 2880
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Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH12
Carried out for	LBH Wembley Engineering	Date		Photograph	03 & 04

Photograph No 03

Photograph No 04

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CONCEPT SITE INVESTIGATIONS

Tel: 020 8811 2880
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Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH13
Carried out for	LBH Wembley Engineering	Date		Photograph	01

Photograph No 01

Unit 8, Warple Mews
Warple Way
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Tel: 020 8811 2880
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Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH13
Carried out for	LBH Wembley Engineering	Date		Photograph	02 & 03

Photograph No 02

Photograph No 03

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CONCEPT SITE INVESTIGATIONS

Tel: 020 8811 2880
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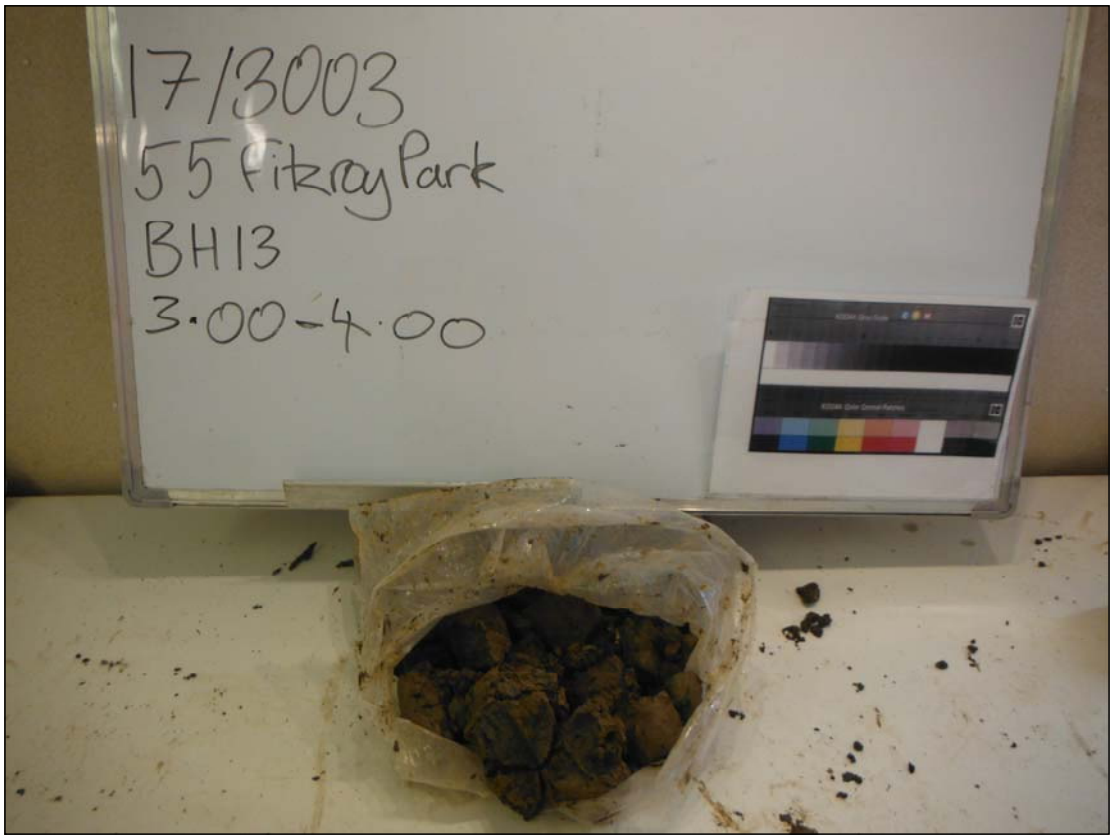
Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH13
Carried out for	LBH Wembley Engineering	Date		Photograph	04



Photograph No 04

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CONCEPT SITE INVESTIGATIONS

Tel: 020 8811 2880
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Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH13
Carried out for	LBH Wembley Engineering	Date		Photograph	05 & 06

Photograph No 05

Photograph No 06

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CONCEPT SITE INVESTIGATIONS

Tel: 020 8811 2880
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Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH14
Carried out for	LBH Wembley Engineering	Date		Photograph	01

Photograph No 01

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CONCEPT SITE INVESTIGATIONS

Tel: 020 8811 2880
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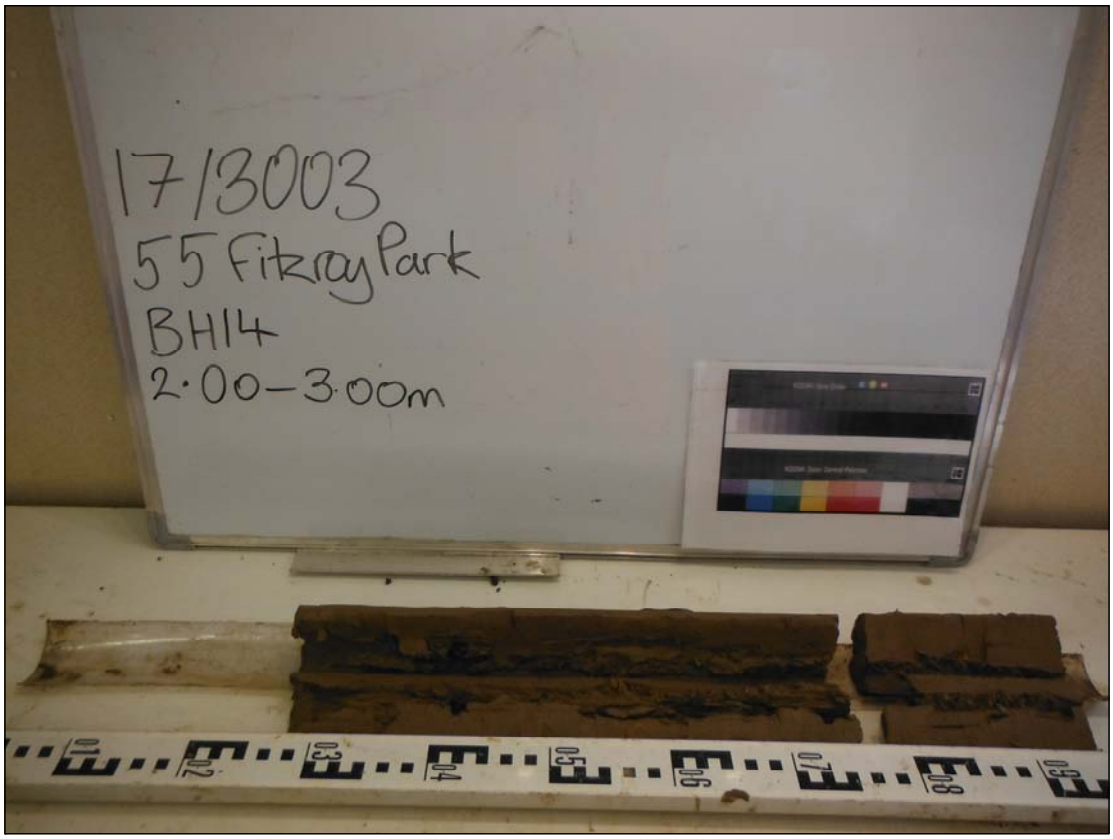
Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH14
Carried out for	LBH Wembley Engineering	Date		Photograph	02 & 03

Photograph No 02



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Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH14
Carried out for	LBH Wembley Engineering	Date		Photograph	04

Photograph No 04

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Tel: 020 8811 2880
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Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH14
Carried out for	LBH Wembley Engineering	Date		Photograph	05

Photograph No 05

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CONCEPT SITE INVESTIGATIONS

Tel: 020 8811 2880
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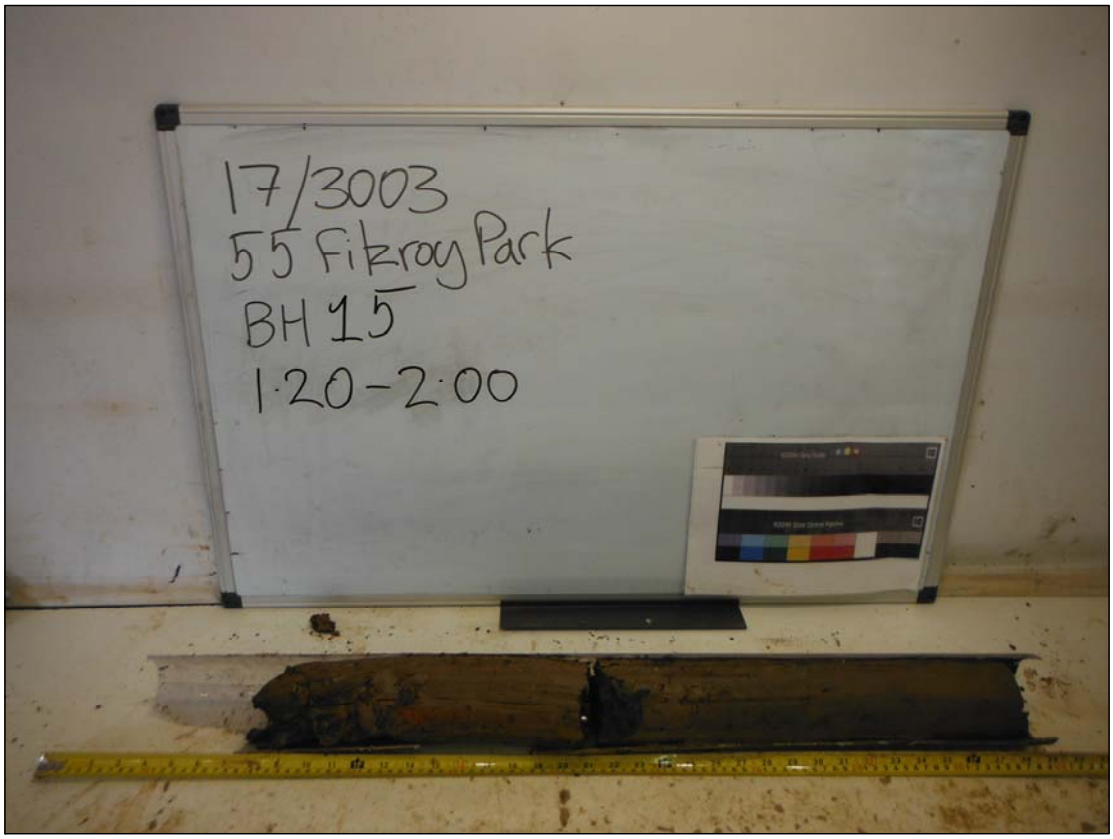
Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH15
Carried out for	LBH Wembley Engineering	Date		Photograph	01 & 02



Photograph No 01

Photograph No 02

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CONCEPT SITE INVESTIGATIONS

Tel: 020 8811 2880
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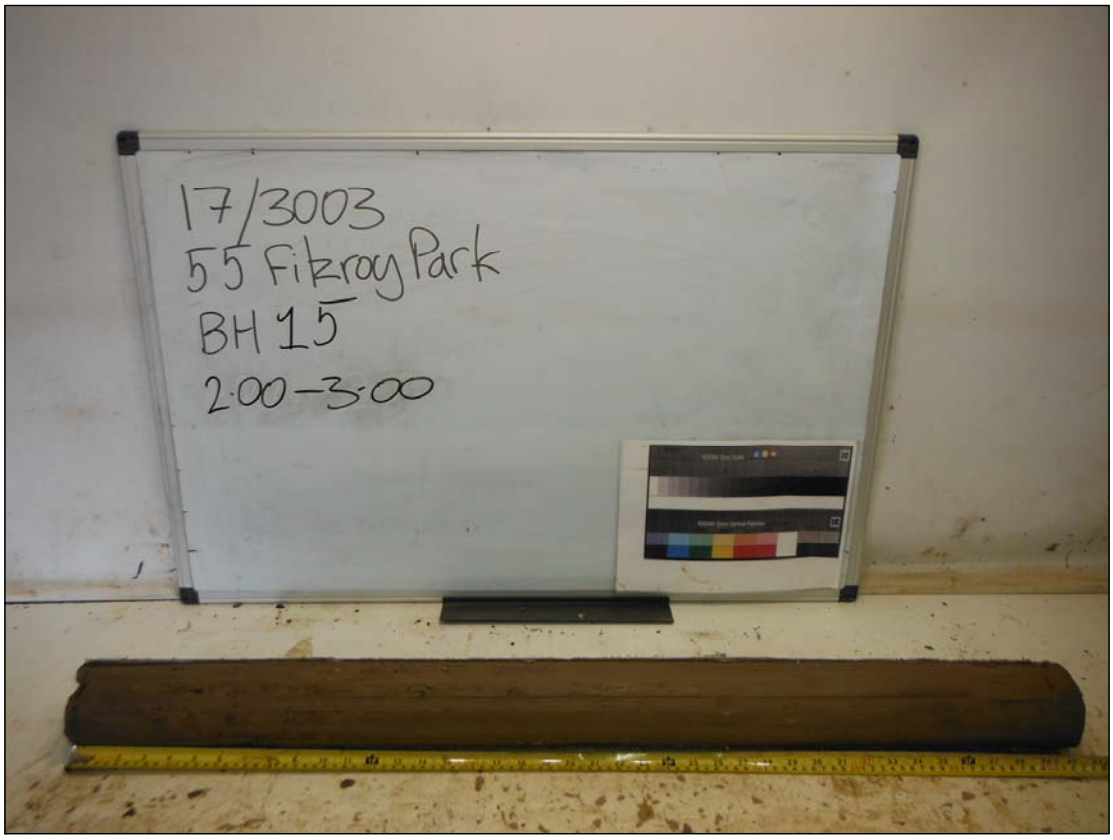
Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH15
Carried out for	LBH Wembley Engineering	Date		Photograph	03 & 04



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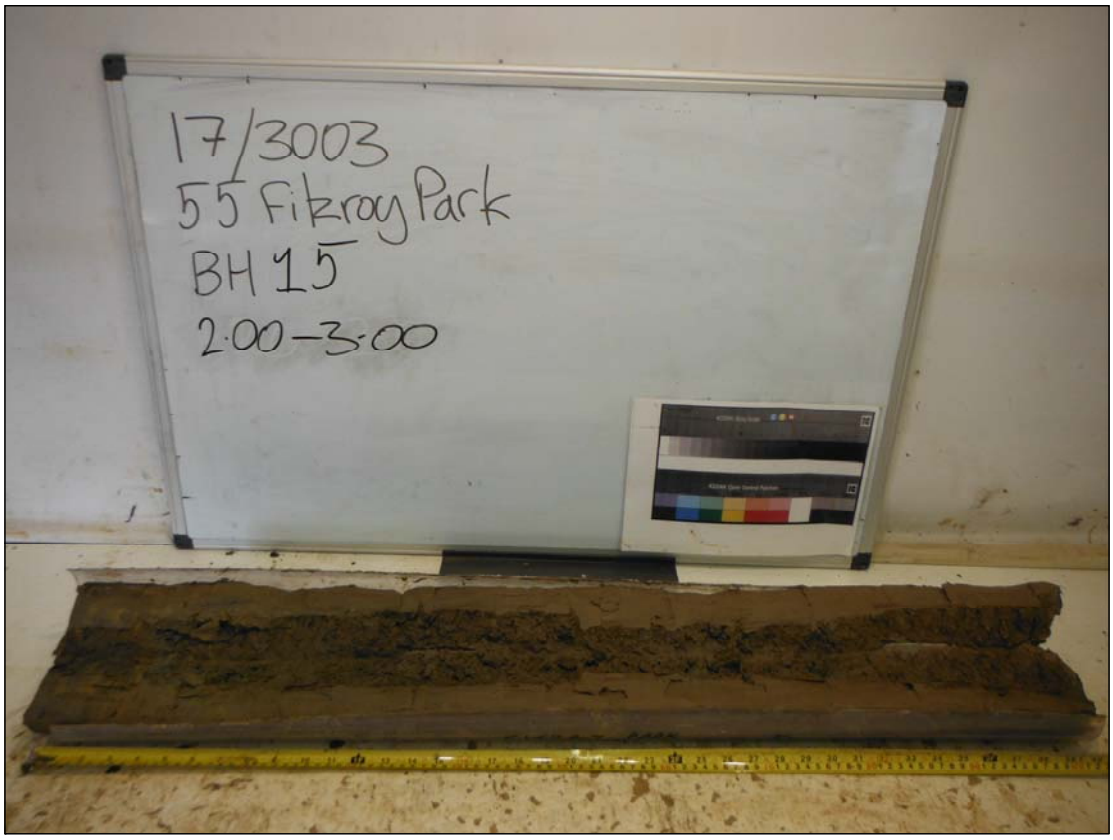

Photograph No 04

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CONCEPT SITE INVESTIGATIONS

Tel: 020 8811 2880
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Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH15
Carried out for	LBH Wembley Engineering	Date		Photograph	05 & 06

Photograph No 05

Photograph No 06

Unit 8, Warple Mews
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CONCEPT SITE INVESTIGATIONS

Tel: 020 8811 2880
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Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH17
Carried out for	LBH Wembley Engineering	Date		Photograph	01

Photograph No 01

Unit 8, Warple Mews
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CONCEPT SITE INVESTIGATIONS

Tel: 020 8811 2880
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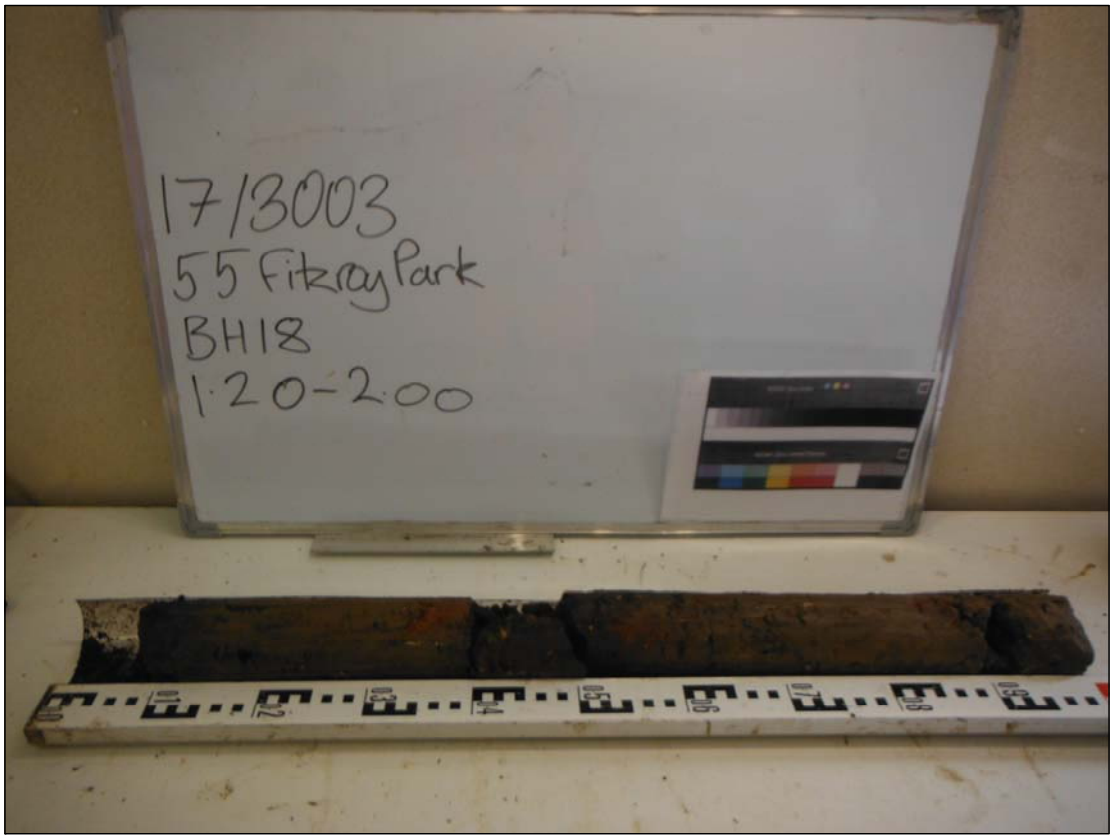
Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH18
Carried out for	LBH Wembley Engineering	Date		Photograph	01 & 02



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Photograph No 02

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Warple Way
London W3 0RF

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Tel: 020 8811 2880
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Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH18
Carried out for	LBH Wembley Engineering	Date		Photograph	03 & 04

Photograph No 03

Photograph No 04

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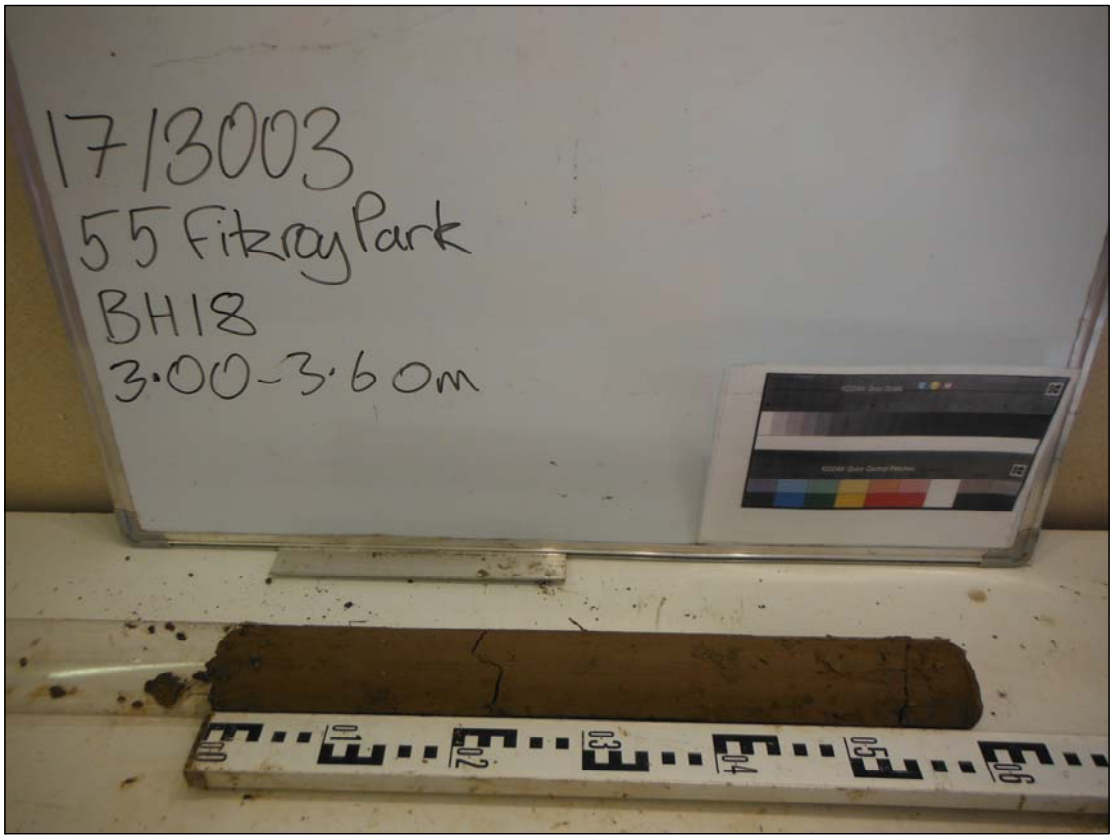
Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH18
Carried out for	LBH Wembley Engineering	Date		Photograph	05 & 06



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Photograph No 06

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CONCEPT SITE INVESTIGATIONS

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Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH19
Carried out for	LBH Wembley Engineering	Date		Photograph	01 & 02

Photograph No 01

Photograph No 02

Unit 8, Warple Mews
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email: si@conceptconsultants.co.uk

Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH19
Carried out for	LBH Wembley Engineering	Date		Photograph	03 & 04

Photograph No 03

Photograph No 04

Unit 8, Warple Mews
Warple Way
London W3 0RF

CONCEPT SITE INVESTIGATIONS

Tel: 020 8811 2880
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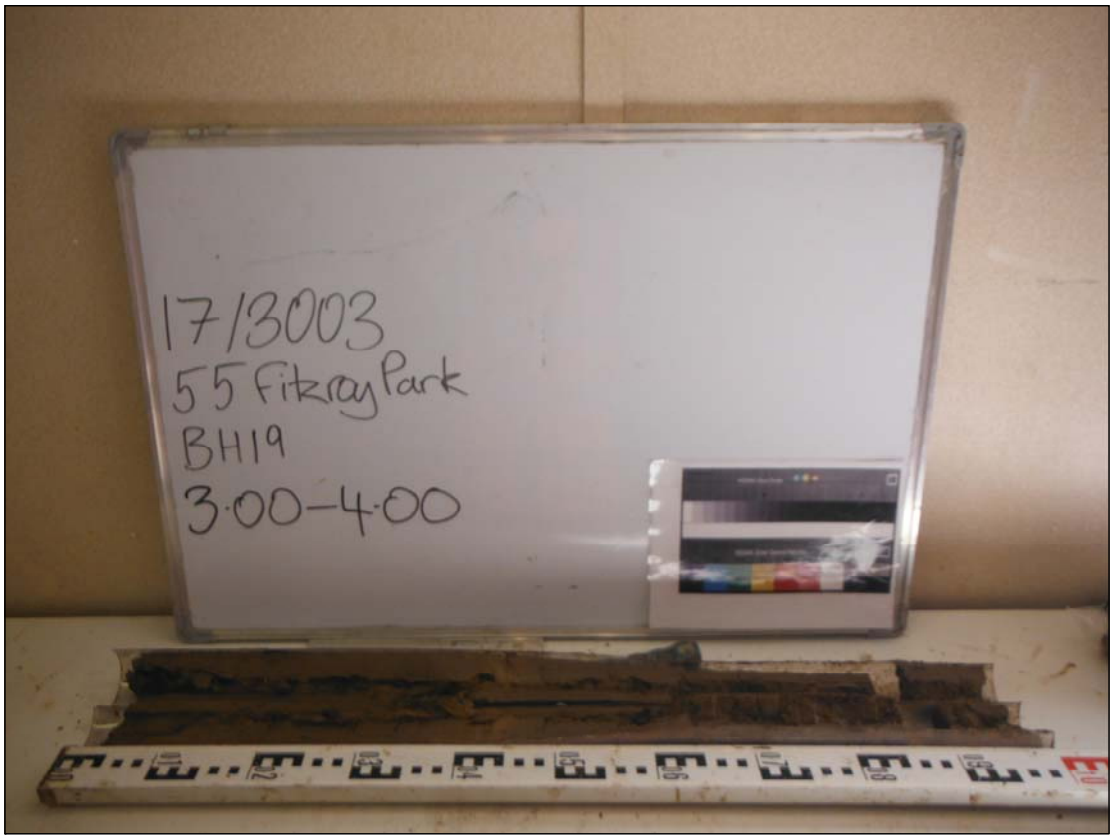
Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH19
Carried out for	LBH Wembley Engineering	Date		Photograph	05 & 06

Photograph No 05



Photograph No 06

Unit 8, Warple Mews
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CONCEPT SITE INVESTIGATIONS

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Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH19
Carried out for	LBH Wembley Engineering	Date		Photograph	07 & 08

Photograph No 07

Photograph No 08

Unit 8, Warple Mews
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CONCEPT SITE INVESTIGATIONS

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Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH20
Carried out for	LBH Wembley Engineering	Date		Photograph	01 & 02

Photograph No 01

Photograph No 02

Unit 8, Warple Mews
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CONCEPT SITE INVESTIGATIONS

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Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH21
Carried out for	LBH Wembley Engineering	Date		Photograph	01 & 02

Photograph No 01

Photograph No 02

Unit 8, Warple Mews
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CONCEPT SITE INVESTIGATIONS

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Site Name	55 Fitzroy Park	Job No.	17/3003	HOLE	BH21
Carried out for	LBH Wembley Engineering	Date		Photograph	03 & 04

Photograph No 03

Photograph No 04