



Plate 7: 2015 view west towards Maynard Wing across quadrangle



Plate 8: 2015 view across quadrangle towards Lady Chapman Hall



Plate 9: 2015 view south across quadrangle towards Skeel Library



Plate 10: 2015 the Kidderpore Avenue street frontage of the study site



Plate 11: 2015 the Kidderpore Avenue street frontage of the study site

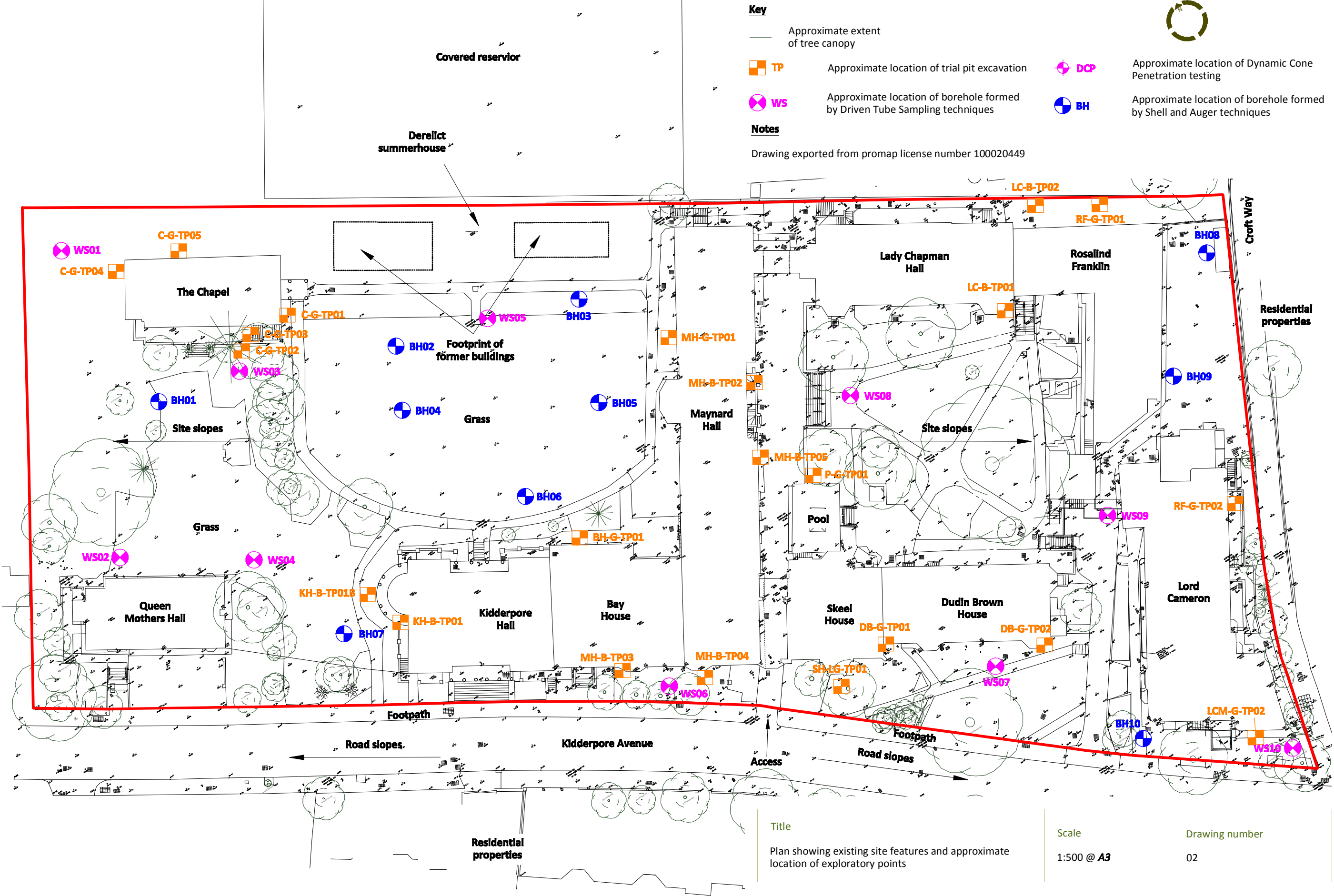


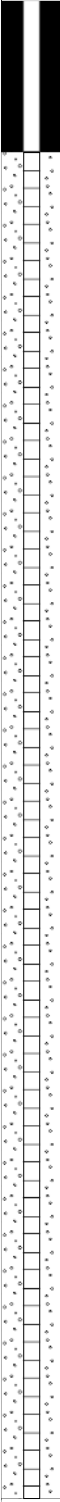
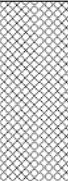









Plate 12: 2015 the Kidderpore Avenue street frontage of the study site

Appendix 1

Geotechnical information

June 2015



WELL	DESCRIPTION	LEGEND	DEPTH (m)	WATER STRIKE	TEST RESULTS				SAMPLING		
					TYPE/DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	FROM (m)	TO (m)	TYPE
	Medium strength orange brown slightly gravelly very sandy CLAY. Gravel consists of brick and flint. MADE GROUND								0.10	0.50	B
									0.60	1.00	B
	High strength orange brown slightly gravelly silty CLAY. Gravel consists of rounded flint. CLAYGATE MEMBER		1.20		PP 1.20	117		DRY	1.20		D
					SPT 1.50-1.95	(4) 12			1.50		D
					PP 1.50	129					
	Medium strength orange brown and grey slightly sandy silty CLAY. CLAYGATE MEMBER		2.50		PP 2.50	50			2.50		D
			2.80		PP 2.80	50			2.80		D
	Loose orange brown silty SAND. CLAYGATE MEMBER				SPT 3.50-3.95	(2) 6	3.00	DRY	3.50		D
									4.30		D
									4.50		D
	High strength orange brown and grey silty CLAY. CLAYGATE MEMBER		4.50		PP 4.50	83			4.90		D
			4.90		PP 4.90	88			4.90	5.40	D
	High strength dark grey silty CLAY. LONDON CLAY FORMATION				SPT 5.50-5.95	(2) 10	5.00	DRY	5.45		D
					PP 5.50	96			5.50		D
					PP 6.50	88			6.50		D
	Medium to high strength dark grey silty CLAY. LONDON CLAY FORMATION		7.50		SPT 7.50-7.95	(3) 13	6.00	DRY	7.50		D
					PP 7.50	54					
					PP 8.50	117			8.50		D
					SPT 9.50-9.95	(3) 14	9.50	9.4	9.50		D
					PP 9.50	133					

CONTINUED ON NEXT SHEET

Notes: Standpipe installed to 10m depth. Inspection pit excavated from 0.0m to 1.2m depth.

Ground level (mAOD)

94.24

Co-ordinates

525311, 185899

Title

Borehole record

Method of excavation

Cable and tool percussion

Groundwater observations

1st groundwater strike at 7.6m depth filling borehole to 7.3m. Sealed out at 8.5m depth. 2nd groundwater strike at 9.1m depth filling borehole to 9m. Sealed out at 10m depth.

Date of excavation (range if applicable)

05/06/2015

Location plan on drawing number

02

Appendix

C

BH01

WELL	DESCRIPTION	LEGEND	DEPTH (m)	WATER STRIKE	TEST RESULTS				SAMPLING		
					TYPE/ DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	FROM (m)	TO (m)	TYPE
	<p>High strength becoming very high strength dark grey silty CLAY with shelly material. LONDON CLAY FORMATION</p>		13.50		PP 10.50	71			10.50		D
									11.00	11.40	U(34)
					PP 11.45 SPT 11.50-11.95	125 (5) 18	10.50	DRY	11.45 11.50		D D
					SPT 12.50-12.95 PP 12.50	(5) 18 129	10.50	DRY	12.50		D
					SPT 13.50-13.95 PP 13.50	(7) 20 150	10.50	DRY	13.50		D
									14.50	14.90	U(48)
					PP 14.95 SPT 15.00-15.45	192 (8) 28	10.50	DRY	14.95 15.00		D D
	BOREHOLE TERMINATED AT 15.50m		15.50								

Notes: Standpipe installed to 10m depth. Inspection pit excavated from 0.0m to 1.2m depth.

Ground level (mAOD)

94.24

Co-ordinates

525311, 185899

Title

Borehole record

Method of excavation

Cable and tool percussion

Groundwater observations

1st groundwater strike at 7.6m depth filling borehole to 7.3m. Sealed out at 8.5m depth. 2nd groundwater strike at 9.1m depth filling borehole to 9m. Sealed out at 10m depth.

Date of excavation (range if applicable)

05/06/2015

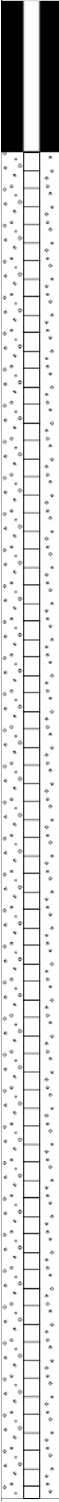
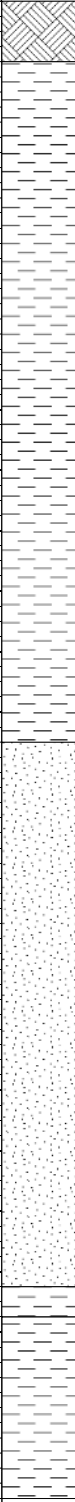

Location plan on drawing number

02

Appendix

C

BH01

WELL	DESCRIPTION	LEGEND	DEPTH (m)	WATER STRIKE	TEST RESULTS				SAMPLING		
					TYPE/DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	FROM (m)	TO (m)	TYPE
	Grass onto brown slightly gravelly clayey SAND. Gravel consists of flint. TOPSOIL		0.40		PP 0.50	80					
	High strength orange brown silty CLAY. CLAYGATE MEMBER				PP 1.50	108			1.50		D
					SPT 2.00-2.45	(3) 10	1.50	DRY	2.00		D
					PP 2.00	71					
					PP 3.20	104			3.20		D
					SPT 4.00-4.45	(3) 11	3.00	DRY	4.00		D
					PP 4.00	88					
	Medium dense becoming loose orange brown silty SAND. CLAYGATE MEMBER		4.90		PP 4.90	50			4.90		D
					SPT 6.00-6.45	(2) 7	4.50	5.9	6.00		D
									7.50		D
					SPT 8.00-8.45	(3) 7	7.50	DRY	8.00		D
	Medium strength orange brown and grey silty very sandy CLAY. CLAYGATE MEMBER		8.50		PP 8.60	63			8.60		D
	High strength dark brown silty CLAY. LONDON CLAY FORMATION		8.70		PP 8.70	92			8.70		D
									9.50	9.90	U(34)
CONTINUED ON NEXT SHEET											

Notes: Standpipe installed to 10m depth. Chiselling undertaken between 20.5m and 20.6m depth taking 45 minutes. Inspection pit excavated from 0.0m to 1.2m depth.

Ground level (mAOD)

97.83

Co-ordinates

525343, 185888

Title

Borehole record

Method of excavation

Cable and tool percussion

Groundwater observations

1st groundwater strike at 9.4m depth. Water level remained constant.
Sealed out at 9.5m depth. 2nd groundwater strike at 17.6m depth filling borehole to 17.3m. Sealed out at 18m depth.

Date of excavation (range if applicable)

03/06/2015

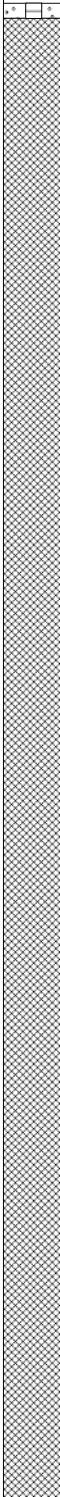
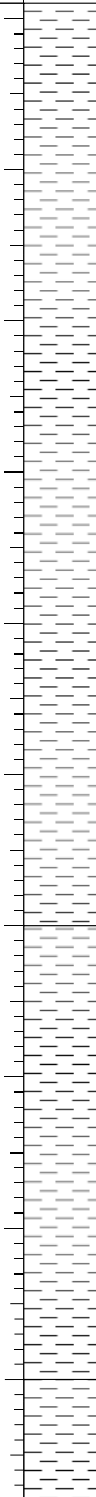
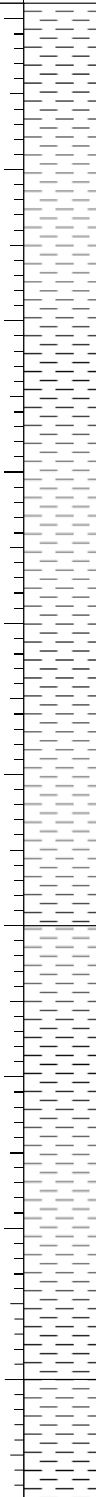

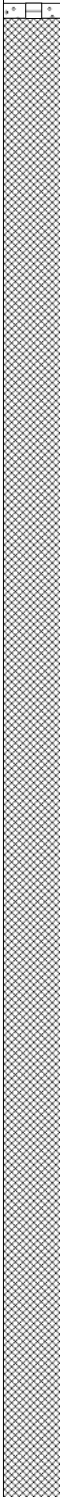
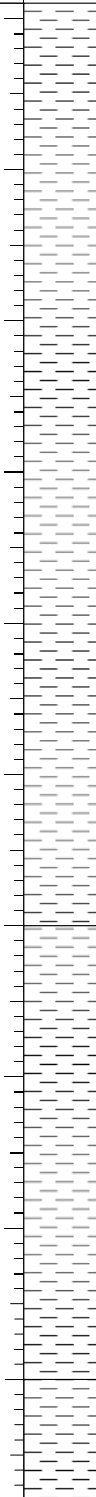
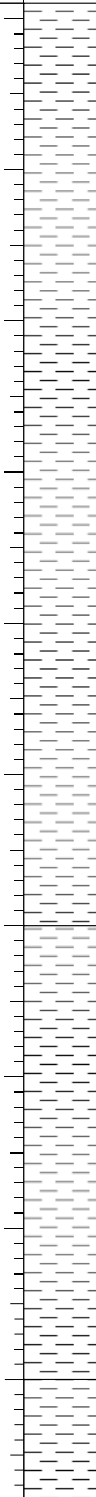

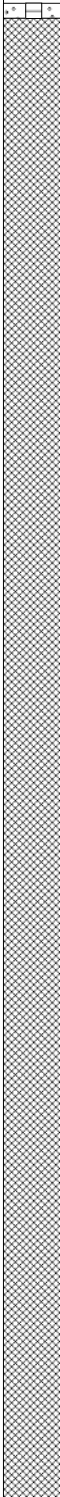
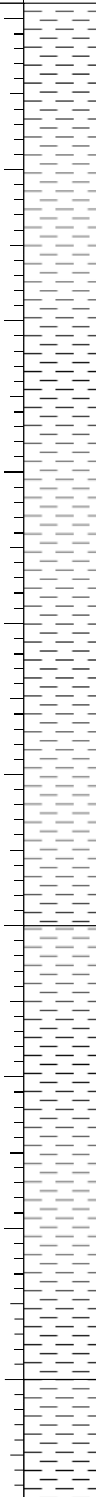
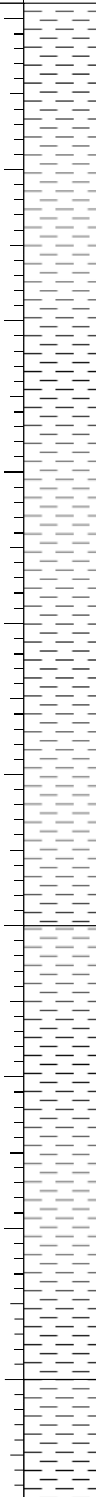

Appendix

C

Location plan on drawing number

02

BH02

WELL	DESCRIPTION	LEGEND	DEPTH (m)	WATER STRIKE	TEST RESULTS				SAMPLING		
					TYPE/ DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	FROM (m)	TO (m)	TYPE
			16.00		PP 9.95	121	10.00	DRY	9.95		D
					SPT	(3) 12			10.00		D
					10.00-10.45						
					PP 11.00	129			11.00		D
					SPT	(5) 13	12.00	DRY	12.00		D
					12.00-12.45						
					PP 13.50	129			13.50		D
					SPT	(5) 14	13.50	DRY	14.00		D
					14.00-14.45						
					PP 14.00	125					
					PP 15.50	121			15.50		D
					SPT	(5) 15	15.00	DRY	16.00		D
			19.00		16.00-16.45						
					PP 16.00	75					
					PP 17.50	225			17.50	D	
					SPT	(8) 23	17.00	DRY	18.00	D	
			19.00		18.00-18.45						
					PP 19.00	225			19.00	D	
									19.50	19.90	U(48)
	CONTINUED ON NEXT SHEET										

Notes: Standpipe installed to 10m depth. Chiselling undertaken between 20.5m and 20.6m depth taking 45 minutes. Inspection pit excavated from 0.0m to 1.2m depth.

Ground level (mAOD)

97.83

Co-ordinates

525343, 185888

Title

Borehole record

Method of excavation

Cable and tool percussion

Groundwater observations

1st groundwater strike at 9.4m depth. Water level remained constant.
Sealed out at 9.5m depth. 2nd groundwater strike at 17.6m depth filling borehole to 17.3m. Sealed out at 18m depth.

Date of excavation (range if applicable)

03/06/2015

Appendix

C

Location plan on drawing number

02

BH02

WELL	DESCRIPTION	LEGEND	DEPTH (m)	WATER STRIKE	TEST RESULTS				SAMPLING		
					TYPE/ DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	FROM (m)	TO (m)	TYPE
	Very high strength dark brown slightly gravelly CLAY. Gravel consists of shelly material. LONDON CLAY FORMATION		20.00		PP 19.90 SPT 20.00-20.45	225 (7) 38	19.00	DRY	19.95 20.00		D D
	Moderately strong brown CLAYSTONE. LONDON CLAY FORMATION		20.50 20.60								
	Very high strength dark brown slightly gravelly CLAY. Gravel consists of shelly material. LONDON CLAY FORMATION				PP 21.00	225			21.00		D
					SPT 22.00-22.45 PP 22.00	(8) 27 225	19.00	DRY	22.00		D
					PP 23.00	225			23.00		D
					SPT 23.50-23.95 PP 23.50	(10) 29 225	19.00	DRY	23.50		D
					PP 24.50	225			24.50		D
					SPT 25.00-25.45 PP 25.00	(12) 33 225	19.00	DRY	25.00		D
	BOREHOLE TERMINATED AT 25.50m		25.50								

Notes: Standpipe installed to 10m depth. Chiselling undertaken between 20.5m and 20.6m depth taking 45 minutes. Inspection pit excavated from 0.0m to 1.2m depth.

Ground level (mAOD)

97.83

Co-ordinates

525343, 185888

Title

Borehole record

Method of excavation

Cable and tool percussion

Groundwater observations

1st groundwater strike at 9.4m depth. Water level remained constant.
Sealed out at 9.5m depth. 2nd groundwater strike at 17.6m depth filling borehole to 17.3m. Sealed out at 18m depth.

Date of excavation (range if applicable)

03/06/2015

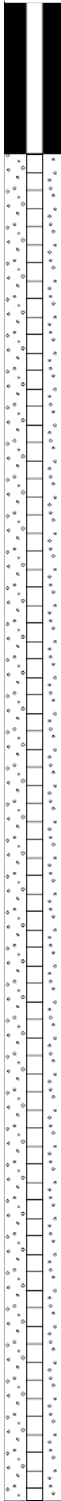








Appendix

C

Location plan on drawing number

02

BH02

WELL	DESCRIPTION	LEGEND	DEPTH (m)	WATER STRIKE	TEST RESULTS				SAMPLING		
					TYPE/ DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	FROM (m)	TO (m)	TYPE
	Grass onto brown slightly gravelly clayey SAND. Gravel consists of clayware, brick and flint. MADE GROUND								0.10	0.50	B
	Medium strength dark brown slightly sandy gravelly CLAY. Gravel consists of ash, brick and flint. MADE GROUND		0.50					0.50	0.90	B	
	High strength dark orange brown silty CLAY. CLAYGATE MEMBER		0.80	PP 0.80	75						
				SPT 1.50-1.95	(2) 9		DRY	1.50		D	
				PP 1.50	79						
				PP 2.50	80			2.50		D	
	Loose orange brown clayey silty SAND. CLAYGATE MEMBER		3.50	SPT 3.50-3.95	(4) 10	1.50	DRY	3.50		D	
	Medium strength orange brown mottled grey slightly sandy silty CLAY. CLAYGATE MEMBER		4.50	PP 4.50	42			4.50		D	
				PP 5.45	71			5.50	5.90	U(36)	
	Medium strength orange brown mottled grey slightly sandy slightly gravelly silty CLAY. Gravel consists of ferruginous sandstone. CLAYGATE MEMBER		5.95					5.95		D	
			6.50	PP 6.50	108			6.50		D	
	High strength grey mottled orange brown slightly sandy silty CLAY. CLAYGATE MEMBER										
	High becoming very high strength dark grey slightly sandy silty CLAY. LONDON CLAY FORMATION		7.40	PP 7.40 SPT 7.50-7.95 PP 7.50	100 (5) 14 92	3.00	DRY	7.40 7.50		D D	
				PP 8.50	113			8.50		D	
				SPT 9.50-9.95 PP 9.50	(4) 11 117	4.50	9.4	9.50		D	
		CONTINUED ON NEXT SHEET									

Notes: Standpipe installed to 10m depth. Chiselling undertaken between 25.4m and 25.8m depth taking 60 minutes. Inspection pit excavated from 0.0m to 1.2m depth.

Ground level (mAOD)

97.82

Co-ordinates

525368, 185874

Title

Borehole record

Method of excavation

Cable and tool percussion

Groundwater observations

Groundwater struck at 9.5m filling borehole to 9.4m depth. Inflow rate insufficient to warrant casing out.

Date of excavation (range if applicable)

01/06/2015

Appendix

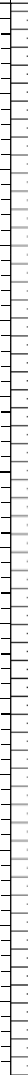
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Location plan on drawing number

02

BH03

WELL	DESCRIPTION	LEGEND	DEPTH (m)	WATER STRIKE	TEST RESULTS				SAMPLING		
					TYPE/ DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	FROM (m)	TO (m)	TYPE

			17.00		PP 10.50	88			10.50		D
									11.00	11.40	U(38)
					PP 11.45 SPT	138 (6) 14	11.00	11.2	11.45 11.50		D D
					11.50-11.95 PP 11.50	125					
					PP 12.50	129			12.50		D
					SPT 13.50-13.95 PP 13.50	(5) 13 142	13.50	13.3	13.50		D
									14.50		D
					SPT 15.50-15.95	(5) 14	15.00	15.2	15.50		D
					PP 16.50	171			16.50		D
									17.00	17.40	U(44)
					PP 17.45 SPT	158 (8) 24	15.00	16.8	17.45 17.50		D D
17.50-17.95											
PP 19.00	175			19.00		D					
SPT 19.50-19.95 PP 19.50	(8) 27 179	15.00	18.4	19.50		D					
CONTINUED ON NEXT SHEET											

Notes: Standpipe installed to 10m depth. Chiselling undertaken between 25.4m and 25.8m depth taking 60 minutes. Inspection pit excavated from 0.0m to 1.2m depth.

Ground level (mAOD)

97.82

Co-ordinates

525368, 185874

Title

Borehole record

Method of excavation

Cable and tool percussion

Groundwater observations

Groundwater struck at 9.5m filling borehole to 9.4m depth. Inflow rate insufficient to warrant casing out.

Date of excavation (range if applicable)

01/06/2015

Appendix

C

Location plan on drawing number

02

BH03

WELL	DESCRIPTION	LEGEND	DEPTH (m)	WATER STRIKE	TEST RESULTS				SAMPLING		
					TYPE/ DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	FROM (m)	TO (m)	TYPE
	Very high strength dark grey slightly gravelly CLAY. Gravel consists of shelly material. LONDON CLAY FORMATION		20.50		PP 20.50	175			20.50		D
									21.00	21.40	U(52)
	Very high strength dark grey slightly gravelly CLAY. Gravel consists of shelly material and occasional mudstone. LONDON CLAY FORMATION		21.50		PP 21.45 SPT 21.50-21.95	158 (8) 28	19.50	5.8	21.45 21.50		D D
					PP 22.50	225			22.50		D
					SPT 23.50-23.95 PP 23.50	(10) 30 200	22.00	DRY	23.50		D
					PP 24.50	196			24.50		D
									25.00	25.40	U(68)
	Moderately strong grey CLAYSTONE. LONDON CLAY FORMATION		25.40		PP 25.45	196			25.45	25.80	D
	Very high strength dark grey CLAY. LONDON CLAY FORMATION		25.60		SPT 25.80-26.25 PP 25.80	(12) 34 163	22.00	DRY	25.50 25.80		B D
					PP 27.00	225			27.00		D
					SPT 27.50-27.95	(14) 39	22.00	DRY	27.50		D
					PP 28.50	225			28.50		D
					PP 29.50	225			29.50		D
	CONTINUED ON NEXT SHEET										

Notes: Standpipe installed to 10m depth. Chiselling undertaken between 25.4m and 25.8m depth taking 60 minutes. Inspection pit excavated from 0.0m to 1.2m depth.

Ground level (mAOD)

97.82

Co-ordinates

525368, 185874

Title

Borehole record

Method of excavation

Cable and tool percussion

Groundwater observations

Groundwater struck at 9.5m filling borehole to 9.4m depth. Inflow rate insufficient to warrant casing out.

Date of excavation (range if applicable)

01/06/2015

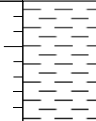

Appendix

C

Location plan on drawing number

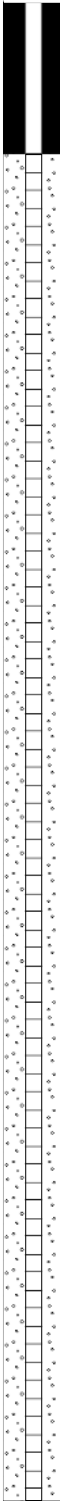
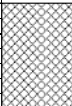
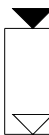














02

BH03

WELL	DESCRIPTION	LEGEND	DEPTH (m)	WATER STRIKE	TEST RESULTS				SAMPLING		
					TYPE/ DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	FROM (m)	TO (m)	TYPE
									30.00	30.40	U(88)
	BOREHOLE TERMINATED AT 30.50m		30.50		PP 30.50	225			30.50		D
											

Notes: Standpipe installed to 10m depth. Chiselling undertaken between 25.4m and 25.8m depth taking 60 minutes. Inspection pit excavated from 0.0m to 1.2m depth.

Ground level (mAOD) 97.82	Co-ordinates 525368, 185874	Title Borehole record	Method of excavation Cable and tool percussion
Groundwater observations Groundwater struck at 9.5m filling borehole to 9.4m depth. Inflow rate insufficient to warrant casing out.	Date of excavation (range if applicable) 01/06/2015	Location plan on drawing number 02	Appendix C
			BH03

WELL	DESCRIPTION	LEGEND	DEPTH (m)	WATER STRIKE	TEST RESULTS				SAMPLING			
					TYPE/ DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	FROM (m)	TO (m)	TYPE	
	Grass onto medium strength brown slightly gravelly sandy CLAY. Gravel consists of brick. MADE GROUND		0.70						0.10	0.60	B	
	High becoming very high strength orange brown mottled grey sandy silty CLAY. CLAYGATE MEMBER				PP 0.70	88			0.70	1.20	B	
					PP 1.50	154			1.50		D	
			4.00		SPT 2.00-2.45	(5) 12	2.00	DRY	2.00	2.45	D	
									3.00		D	
												
	Medium to high strength orange brown silty very sandy CLAY. CLAYGATE MEMBER		6.00		SPT 4.00-4.45 PP 4.00	(6) 15 71	2.00	DRY	4.00	4.45	D	
									5.00		D	
												
	High strength orange brown mottled grey sandy CLAY. CLAYGATE MEMBER		8.00		SPT 6.00-6.45 PP 6.00	(6) 19 96	6.00	5.6	6.00	6.45	D	
					PP 7.00	79			7.00		D	
												
	High strength dark grey silty sandy CLAY. LONDON CLAY FORMATION				SPT 8.00-8.45 PP 8.00	(4) 13 79	8.00	7.4	8.00	8.45	D	
					PP 9.00	92			9.00		D	
												
	CONTINUED ON NEXT SHEET											

Notes: Standpipe installed to 10m depth. Inspection pit excavated from 0.0m to 1.2m depth.

Ground level (mAOD)
97.66

Co-ordinates
525339, 185880

Title
Borehole record

Method of excavation
Cable and tool percussion

Groundwater observations

Groundwater struck 5.8m depth, filling borehole to 5.1m. Sealed out at 9m depth.

Date of excavation (range if applicable)
08/06/2015

Location plan on drawing number
02

Appendix
C

BH04

[illegible]

Notes: Standpipe installed to 10m depth. Inspection pit excavated from 0.0m to 1.2m depth.

Ground level (mAOD) 97.66	Co-ordinates 525339, 185880	Title Borehole record	Method of excavation Cable and tool percussion
Groundwater observations Groundwater struck 5.8m depth, filling borehole to 5.1m. Sealed out at 9m depth.		Date of excavation (range if applicable) 08/06/2015	Appendix C
		Location plan on drawing number 02	BH04

WELL	DESCRIPTION	LEGEND	DEPTH (m)	WATER STRIKE	TEST RESULTS				SAMPLING		
					TYPE/DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	FROM (m)	TO (m)	TYPE
	Grass onto medium strength dark brown slightly gravelly very sandy CLAY. Gravel consists of ash, brick and flint. MADE GROUND		0.60						0.00	0.60	B
	Medium strength brown and orange brown slightly gravelly silty CLAY. Gravel consists of ash, brick and flint. MADE GROUND		1.20		PP 1.20	83			0.70	1.20	B
	High strength orange brown silty sandy CLAY. CLAYGATE MEMBER				SPT 1.50-1.95	(2) 8	1.00	DRY	1.50	1.95	D
					PP 2.50	96			2.50		D
	Medium strength dark orange brown and grey silty sandy CLAY. CLAYGATE MEMBER		3.50		SPT 3.50-3.95	(3) 15	3.50	DRY	3.50	3.95	D
					PP 3.50	58					
					PP 4.50	54			4.50		D
									5.00	5.40	U(35)
					SPT 5.50-5.95	(3) 11	5.50	DRY	5.50	5.95	D
					PP 5.50	54			5.50		D
					PP 6.00	50			6.00		D
	High strength dark orange brown and grey silty sandy CLAY. CLAYGATE MEMBER		6.50		SPT 6.50-6.95	(4) 12	6.50	DRY	6.50	6.95	D
					PP 6.50	100					
					PP 7.00	125			7.00		D
					SPT 7.50-7.95	(5) 15	7.50	DRY	7.50	7.95	D
	High strength dark grey silty CLAY. LONDON CLAY FORMATION		8.00		PP 7.50	133			8.00	8.40	U(52)
									8.00		D
					PP 8.50	142			8.50		D
					PP 9.00	108			9.00		D
					SPT 9.50-9.95	(9) 22	9.50	DRY	9.50	9.95	D
CONTINUED ON NEXT SHEET											

Notes: Standpipe installed to 10m depth. Inspection pit excavated from 0.0m to 1.2m depth.

Ground level (mAOD)
97.79

Co-ordinates
525363, 185866

Title
Borehole record

Method of excavation
Cable and tool percussion

Groundwater observations

Groundwater strike at 8.2m depth filling borehole to 8m. Sealed out at 8.5m depth.

Date of excavation (range if applicable)
08/05/2015

Appendix
C

Location plan on drawing number
02

BH05

WELL	DESCRIPTION	LEGEND	DEPTH (m)	WATER STRIKE	TEST RESULTS				SAMPLING		
					TYPE/DEPTH (m)	RESULT	CASING DEPTH (m)	WATER LEVEL (m)	FROM (m)	TO (m)	TYPE
	<p>Medium becoming high strength dark grey silty CLAY. LONDON CLAY FORMATION</p> <p>BOREHOLE TERMINATED AT 15.50m</p>		13.50		PP 10.50	146			10.50		D
					SPT 11.50-11.95	(9) 23	11.50	DRY	11.50	11.95	D
					PP 11.50	117					
					PP 12.50	100			12.50		D
					SPT 13.50-13.95	(10) 26	12.00	DRY	13.50	13.95	D
					PP 13.50	58					
					PP 14.50	138			14.50		D
					SPT 15.00-15.45	(13) 29	12.00	DRY	15.00	15.45	D
					PP 15.00	79					

Notes: Standpipe installed to 10m depth. Inspection pit excavated from 0.0m to 1.2m depth.

Ground level (mAOD)
97.79

Co-ordinates
525363, 185866

Title
Borehole record

Method of excavation
Cable and tool percussion

Groundwater observations

Groundwater strike at 8.2m depth filling borehole to 8m. Sealed out at 8.5m depth.

Date of excavation (range if applicable)
08/05/2015

Location plan on drawing number
02

Appendix
C

BH05