

Project

L4 Colt DCS Data Centre

Job No 21/3600	Date Started 16/08/21 Date Completed 24/08/21	Ground Level (mOD) 29.68	Co-Ordinates E 511479.91 N 180275.05	Final Depth 57.00m
Client HDCI Hayes London Limited	Method Cable Percussion			Sheet 1 of 6

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument Backfill					
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result							
11/08/21	Dry	Dry	29.53		0.15	Reinforced CONCRETE.	0.30	ES1		VOC 0ppm						
			29.23		0.45	Orangish brown gravelly fine to coarse SAND. Gravel comprises angular to subangular fine to coarse brick and concrete fragments. (MADE GROUND)	0.30			0.30						
			29.08		0.60		0.70			0.70						
			28.78		0.90		0.70	0.70								
11/08/21			Dry	0.60			(0.70)	Soft, dark grey slightly gravelly sandy SILT. Gravel comprises angular to subangular fine to medium flint, brick and concrete fragments. (MADE GROUND)	1.20	B3		N39	1, 2 / 2, 3, 9, 25			
16/08/21							1.60	Soft to firm, dark grey slightly gravelly sandy SILT with slight hydrocarbon odour. Gravel is angular to subangular fine to medium flint. (LANGLEY SILT MEMBER)	1.20				ES3A	B4	VOC 0ppm	
					28.08				1.30						ES4A	VOC 0ppm
									1.30							
							1.60-2.00	Firm, orangish brown mottled light grey slightly sandy silty CLAY. (LANGLEY SILT MEMBER) 1.20 ... becoming very stiff light grey locally mottled light bluish grey slightly gravelly with occasional to frequent pockets of orangish brown silty fine sand (<25mm), occasional dark grey staining and dark grey flecks. Gravel is angular to subangular fine to coarse flint	2.50	B5		N48	4, 4 / 8, 9, 15, 16			
							2.50		ES5A				B6	VOC 21ppm		
							2.50									
							3.00-3.50									
16/08/21					4.00	2.10			(4.40)	Dense, brown clayey sandy subangular to subrounded fine to coarse flint GRAVEL. Sand is fine to coarse. (ALLUVIUM / LYNCH HILL GRAVEL MEMBER?)		4.00	B7	N31	2, 2 / 5, 8, 8, 10	
										2.50 ... becoming very sandy with no clay		4.00			B8	
										3.00 ... becoming sandy with 1No flint cobble		4.50-5.00				
								4.00 ... becoming very sandy								
16/08/21	5.50	3.00						5.50 ... becoming medium dense	5.50	B9	N20	2, 2 / 3, 5, 6, 6				
					23.68		6.00		5.50			B10				
							6.00-6.50									
								ES10A		VOC 2ppm						
							6.20			ES10B	U11	VOC 7.5ppm				
							6.20					U12	30 blows	100% Recovery		
							6.60									
							6.60-6.80									
							6.90-7.35	D13								
			22.33		7.35		7.35			UT14	34 blows	100% Recovery				
							7.50-7.95									
16/08/21	7.10	7.30			(2.10)	Firm, dark grey silty CLAY with rare pockets and occasional lenses of off-white silt, rare lignite fragments (<4mm), dark grey staining and dark grey flecks. (ALLUVIUM / LYNCH HILL GRAVEL MEMBER?)	7.95	D15	N22	3, 4 / 5, 5, 5, 7						
17/08/21	7.10	5.20					7.95 ... with extremely closely spaced laminae of light grey silt and occasional rootlets			8.00	D16					
										8.00-8.45						
							8.50-8.95	U17	38 blows	100% Recovery						
										D18	50 blows	100% Recovery				
							8.95									
							9.00-9.45									
17/08/21	8.00	9.50	20.23		9.45		9.45	D20	N28	7, 10 / 6, 4, 8, 10						
					(0.55)	Soft to firm, orangish brown mottled light grey gravelly sandy silty CLAY with rare dark grey flecks. Gravel is subangular to subrounded fine to coarse flint. Sand is fine to medium. (ALLUVIUM / LYNCH HILL GRAVEL MEMBER?)	9.50			D21	B22	VOC 25.4ppm				
17/08/21	10.00	9.50	19.68		10.00		9.50-9.80						ES22A	N19	2, 3 / 5, 4, 5, 5	
							9.80	B23							VOC 15.6ppm	
							9.80									
							10.00									
17/08/21	10.00	4.00				9.50 ... becoming grey locally dark grey and slightly gravelly	10.00	B24	ES24A							
						Medium dense, brown very sandy subangular to subrounded fine to coarse flint GRAVEL.	10.50									
							10.50-11.00									
							10.50									

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 16/08/21
Date Completed 24/08/21

Ground Level (mOD)
29.68

Co-Ordinates
E 511479.91 N 180275.05

Final Depth
57.00m

Client
HDCI Hayes London Limited

Method
Cable Percussion

Sheet
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PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
17/08/21	11.50	4.50			(5.00)	Sand is fine to coarse. (LYNCH HILL GRAVEL MEMBER)	11.50 11.50 11.50-13.00 12.00-12.50	B25 AMAL25A B26	N16	2, 3 / 3, 4, 4, 5	
17/08/21	13.00	3.70					13.00 13.00 13.50-14.00	B27 B28	N16	3, 5 / 3, 5, 4, 4	
17/08/21	14.50	4.00	14.68		15.00		14.50 14.50 15.00-15.50 15.00-15.50	B29 B30 AMAL30A	N20	3, 3 / 4, 4, 4, 8	
17/08/21	16.00	4.30			(2.90)	Medium dense, brown gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse flint. (LYNCH HILL GRAVEL MEMBER)	16.00 16.00 16.50-17.00	B31 B32	N2	1, 0 / 0, 1, 0, 1	
17/08/21	17.50	5.50	11.78		17.90	16.50 ... becoming very gravelly	17.50 17.50 17.90-18.40 18.00 18.00	B33 B34 ES34A	N1	1, 0 / 0, 1, 0, 0	
			11.08		(0.70)	Very stiff brown mottled orangish brown silty CLAY with frequent pockets of orangish brown silt (<35mm). (THAMES GROUP: WEATHERED LONDON CLAY)	18.50-18.95	U35	45 blows	100% Recovery	
						Very stiff, extremely to very closely fissured greyish brown slightly micaceous silty CLAY with occasional bioturbation. Fissures are subhorizontal, planar, smooth, unpolished. (THAMES GROUP: LONDON CLAY FORMATION - A3ii)	18.95 19.00-19.45 19.40 19.50 19.50-19.95	D36 UT37 D38 D39	55 blows	89% Recovery	
						19.40 ... with frequent dark grey flecks and rare off-white shell fragments (<5mm)	20.00-20.45	U40	55 blows	100% Recovery	
						20.40 ... with occasional off-white shell fragments (<4mm)	20.45 20.50-20.95	D41 UT42	60 blows	89% Recovery	
						20.90 ... with frequent white flecks	20.90 21.00	D43	N29	3, 4 / 6, 7, 7, 9	
						21.00 ...becoming extremely closely fissured with rare pockets of light brown silty fine sand (<25mm)	21.00-21.45	D44	70 blows	78% Recovery	
						21.85 - 21.95 ... with band of claystone	21.50-21.95 21.90 22.00-22.45	U45 D46 UT47	60 blows	89% Recovery	

Issue: FINAL

Logger: FT/AN

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:14

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 16/08/21
Date Completed 24/08/21

Ground Level (mOD)
29.68

Co-Ordinates
E 511479.91 N 180275.05

Final Depth
57.00m

Client
HDCI Hayes London Limited

Method
Cable Percussion

Sheet
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PROGRESS			STRATA			SAMPLES & TESTS				Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
17/08/21	18.00	22.00				22.40 ... with frequent pockets of light brown silty fine sand (<40mm), rare pockets of dark grey silt (<15mm) and occasional light brown discoloration	22.40 22.50 22.50-22.95	D48 D49	N31	4, 5 / 7, 8, 9	
18/08/21	18.00	18.00				23.00-23.45	23.00-23.45	U50	65 blows	100% Recovery	
						23.45 ... with occasional pockets of light brown silty fine sand (<25mm) and rare dark grey flecks	23.45 23.50-23.95	D51 UT52	70 blows	100% Recovery	
						23.95 ... with occasional partings of light brown silty fine sand and pockets of dark grey silt (<20mm)	23.95 24.00 24.00-24.45	D53 D54	N33	4, 4 / 6, 8, 9, 10	
						24.50-24.95	24.50-24.95	U55	60 blows	100% Recovery	
						24.95 ... becoming very closely fissured with rare pockets of light brown silty fine sand (<15mm). Fissures are subvertical, planar, smooth, unpolished	24.95 25.00-25.45	D56 UT57	65 blows	100% Recovery	
						25.45 ... with rare partings of light brown silty fine sand and rare lenses of light grey silt	25.45 25.50 25.50-25.95	D58 D59	N30	12, 6 / 5, 6, 9, 10	
						26.00-26.45	26.00-26.45	U60	60 blows	100% Recovery	
						26.45 ... becoming slightly sandy with occasional pockets of light brown silty fine sand (<30mm)	26.45 26.50-26.95	D61 UT62	65 blows	89% Recovery	
						26.90 ... with occasional dark grey flecks	26.90 27.00	D63			
						27.00 ... with rare light grey lenses of white silt	27.00-27.45	D64	N34	4, 5 / 6, 8, 9, 11	
						27.50-27.95	27.50-27.95	U65	70 blows	89% Recovery	
						27.90 ... with rare pockets of light brown fine sand (<15mm)	27.90 28.00-28.45	D66 UT67	70 blows	89% Recovery	
						28.40 ... with a pocket of weak, light brown fine to medium gravel size claystone fragments (<70mm)	28.40 28.50 28.50-28.95	D68 D69	N33	3, 6 / 7, 8, 11	
						28.50 ... with rare off-white shell fragments (<3mm)	29.00-29.45	U70	75 blows	100% Recovery	
						29.45 ... with occasional pockets of light brown fine sand (<30mm)	29.45 29.50-29.95	D71 UT72	75 blows	100% Recovery	
						29.95 ... with occasional dark grey flecks	29.95 30.00 30.00-30.45	D73 D74	N32	3, 5 / 6, 7, 9, 10	
						Very stiff, extremely closely fissured greyish brown slightly micaceous CLAY with occasional off-white shell fragments (<3mm) and rare bioturbation. Fissures are subhorizontal, planar, smooth, polished. (THAMES GROUP: LONDON CLAY FORMATION - A3i)	30.50-30.95	U75	70 blows	100% Recovery	
						31.00-31.45	30.95 31.00-31.45	D76 UT77	70 blows	89% Recovery	
						31.40 ... with rare pockets of light brown fine sand (<15mm)	31.40 31.50 31.50-31.95	D78 D79	N36	4, 5 / 8, 8, 10, 10	
						32.00-32.45	32.00-32.45	U80	70 blows	100% Recovery	
						32.45 ... with rare bioturbation	32.45 32.50-32.95	D81 UT82	70 blows	89% Recovery	
						32.95	32.95	D83			

Issue: FINAL

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Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 16/08/21
Date Completed 24/08/21

Ground Level (mOD)
29.68

Co-Ordinates
E 511479.91 N 180275.05

Final Depth
57.00m

Client
HDCI Hayes London Limited

Method
Cable Percussion

Sheet
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PROGRESS			STRATA			SAMPLES & TESTS				Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
18/08/21	18.00	38.50	-5.72		35.40	32.95 ... with rare white flecks	33.00		N75	6, 19 / 39, 13, 12, 11	
						33.10 - 33.30 ... with a band of claystone fragments	33.00-33.45	D84			
							33.10	D85			
							33.50-33.95	U86	75 blows	100% Recovery	
							33.95	D87			
							34.00-34.45	UT88	75 blows	100% Recovery	
							34.45	D89			
						34.45 ... becoming very closely fissured with rare off-white shell fragments (<4mm)	34.50	D90	N41	4, 4 / 9, 10, 10, 12	
							34.50-34.95				
							35.00-35.45	U91	70 blows	89% Recovery	
18/08/21	18.00	38.50	-5.72		(10.10)	Very stiff, dark greyish brown slightly sandy slightly micaceous silty CLAY with occasional pockets of light grey silty fine sand (<35mm), rare pockets of dark grey silt (<15mm), lenses of light brown silt (<3mm), foraminifera and bioturbation. (THAMES GROUP: LONDON CLAY FORMATION - A2)	35.40	D92			
							35.50-35.95	UT93	70 blows	100% Recovery	
							35.95	D94	N43	5, 6 / 10, 10, 10, 13	
							36.00	D95			
							36.00-36.45				
							36.50-36.95	U96	75 blows	89% Recovery	
							36.90	D97			
							37.00-37.45	UT98	75 blows	89% Recovery	
							37.40	D99	N36	4, 6 / 8, 9, 9, 10	
							37.50	D100			
18/08/21	18.00	38.50	-5.72		(10.10)	37.50 ... becoming sandy with frequent pockets of dark grey silt (<30mm) and occasional off-white shell fragments (<3mm)	37.50-37.95				
							38.00-38.45	U101	75 blows	100% Recovery	
							38.45	D102			
						38.45 ... becoming slightly sandy with rare pockets of dark grey silt (<15mm) and occasional off-white shell fragments (<3mm)	38.50-38.95	UT103	75 blows	100% Recovery	
							38.95	D104	N36	4, 5 / 7, 8, 10, 11	
							39.00	D105			
						39.00 ... with frequent white flecks	39.00-39.45				
							39.50-39.95	U106	75 blows	100% Recovery	
							39.95	D107			
						39.95 ... with frequent foraminifera	40.00-40.45	UT108	75 blows	100% Recovery	
18/08/21	18.00	38.50	-5.72		(10.10)		40.45	D109	N40	4, 6 / 8, 9, 11, 12	
						40.45 ... becoming sandy with frequent pockets of light brown silty fine sand (<40mm), occasional foraminifera and 1No pyrite nodule (<15mm)	40.50	D110			
							40.50-40.95				
							41.00-41.45	U111	80 blows	67% Recovery	
							41.30	D112			
						41.30 ... becoming slightly sandy with 1No shell fragment (<20mm)	41.50-41.95	UT113	80 blows	89% Recovery	
							41.90	D114	N40	4, 7 / 8, 9, 11, 12	
							42.00	D115			
							42.00-42.45				
							42.50-42.95	U116	85 blows	78% Recovery	
19/08/21	18.00	40.00	-5.72		(10.10)		42.85	D117			
						42.85 ... with frequent white flecks, rare off-white shell fragments (<10mm) and foraminifera	43.00-43.45	UT118	85 blows	67% Recovery	
							43.30	D119	N42	4, 7 / 9, 9, 12, 12	
						43.30 ... becoming slightly sandy with a parting light brown silty fine sand	43.40	D120			
							43.40-43.85				
							44.00-44.45	U121	80 blows	89% Recovery	
19/08/21	43.50	42.90									

Issue: FINAL

Logger: FT/AN

CHD: AN

APRV: OS

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Project

L4 Colt DCS Data Centre

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Client HDCI Hayes London Limited			Method Cable Percussion	Sheet 5 of 6

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
19/08/21	44.00	43.50	-15.82		(0.50)	44.40 ... becoming sandy with a pocket of off-white shell fragments (<70mm) and rare lignite fragments (<15mm)	44.40-44.95	D122 UT123	80 blows	89% Recovery	
						44.90 ... with a parting of light brown silty fine sand and frequent pockets of light brown silt (<30mm)	44.90-45.00	D124	N46	4, 8 / 10, 10, 12, 14	
						45.00 ... with rare lignite fragments (<5mm)	45.00-45.45	D125			
						Very stiff, greyish brown gravelly silty CLAY with low limestone cobble content. Gravel is subangular medium to coarse limestone fragments.	45.50-45.95	B126	80 blows	0% Recovery	
						(LAMBETH GROUP: WOOLWICH FORMATION: Upper Shelly Beds)	46.00-46.45	D127 B128	N48	3, 7 / 9, 10, 13, 16	
						Very stiff, grey mottled light bluish grey locally yellowish brown silty CLAY.	46.00-46.95	U129	80 blows	89% Recovery	
						(LAMBETH GROUP: READING FORMATION: Upper Mottled Beds)	46.90-47.45	D130 UT131	80 blows	89% Recovery	
						46.90 ... locally becoming reddish brown	47.00-47.45				
						47.40 ... becoming locally orangish brown	47.40-47.50	D132	N51	6, 7 / 9, 13, 13, 16	
							47.50-47.95	D133			
19/08/21 20/08/21 20/08/21	44.00 44.00 44.00	43.50 22.00 23.50			(11.00)	48.00-48.45	48.00-48.45	U134	85 blows	100% Recovery	
						48.45 ... becoming light grey mottled reddish brown	48.45	D135			
							49.00-49.45	UT136	85 blows	78% Recovery	
						49.40 ... becoming multicolored	49.35-49.40	D137 D138	N43	5, 6 / 8, 10, 12, 13	
							50.00-50.45	U139	85 blows	89% Recovery	
							50.40-50.95	D140 UT141	85 blows	78% Recovery	
						50.85 ... becoming yellowish brown mottled light bluish grey and purple with rare pockets of white silt (<25mm)	50.85-50.90	D142	N56	4, 8 / 12, 13, 15, 16	
						50.90 ... with frequent pockets of white silt (<35mm) and occasional fine to medium gravel size calcrete silt nodules	50.90-51.35	D143			
						51.50 ... becoming multicolored	51.50-51.95	U144	85 blows	56% Recovery	
							51.75-51.80	D145 UT146	85 blows	67% Recovery	
20/08/21	44.00	26.10				52.10-52.20	52.10-52.20	D147 D148	N67	5, 8 / 12, 15, 20, 20	
							53.00-53.30	B149	85 blows	0% Recovery	
							53.40-53.85	U150	100 blows	67% Recovery	
							53.70-53.80	D151 UT152	100 blows	56% Recovery	
							54.05-54.10	D153	N60	7, 10 / 10, 14, 16, 20	
							54.10-54.55	D154			
							55.00		N50	4, 6 / 8, 10, 15, 17	

Project

L4 Colt DCS Data Centre

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Client HDCI Hayes London Limited			Method Cable Percussion	Sheet 6 of 6

PROGRESS			STRATA			SAMPLES & TESTS				Field Records	Instrument/ Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
20/08/21	44.00	27.10		X			55.00-55.45	D155			
23/08/21	44.00	49.00		X			55.50-55.90	B156			
23/08/21	44.00	6.50		X			56.00-56.45	U157	100 blows	67% Recovery	
				X			56.30	D158	N100/245mm	15, 10 / 23, 27, 39, 11	
				X			56.40				
				X			56.40-56.85	D159			
				X			56.50-57.00	B160			
23/08/21	44.00	6.90	-27.32	X	57.00	End of Borehole					

Issue: FINAL

Logger: FT/ AN

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:14

Project

L4 Colt DCS Data Centre

Job No

21/3600

Date Started

20/08/21

Date Completed

20/08/21

Ground Level (mOD)

29.01

Co-Ordinates

E 511595.37 N 180211.83

Final Depth

0.80m

Client

HDCI Hayes London Limited

Plant Used

Hand Excavated

Sheet

1 of 1

STRATA

SAMPLES & TESTS

Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth	Type No	Test Result	Field Records
	28.81		(0.20) 0.20	CONCRETE.	0.00			... Asphalt encountered between ground level and 0.20m on the eastern side of the pit VOC 0ppm
	28.71		0.30	Soft, grey gravelly CLAY. Gravel is angular to subangular fine flint. Sand is fine to coarse. (MADE GROUND)	0.20 0.20 0.20-0.25 0.25-0.40	ES1 B2 B3		
	28.61		0.40	Grey silty GRAVEL. Gravel comprises subangular fine to coarse mixed lithologies. (MADE GROUND)	0.50 0.50 0.50-0.60	ES4 B5		VOC 0ppm
	28.21		(0.40) 0.80	Greyish brown gravelly silty fine to coarse SAND with medium brick cobble content. Gravel comprises angular fine to coarse flint, concrete and brick fragments. (MADE GROUND)	0.80			... Pit aborted at 0.80m depth (see Remarks)
	28.21		0.80	Brickwork and concrete. (MADE GROUND)				
				End of Trial Pit				

GENERAL REMARKS

1. An inspection pit was hand excavated prior to borehole commencing.
2. Pit aborted at 0.80m depth due to presence of foundation. Location moved to position BH102A.
3. Pit backfilled with soil arisings and made good upon completion

Issue: FINAL

Driller: DJ

Logger: TP

CHD: AN

APRV: OS

Log Print Date & Time:

07/02/2022 18:16

Project

L4 Colt DCS Data Centre

Job No

21/3600

Date Started

31/08/21

Date Completed

31/08/21

Ground Level (mOD)

29.17

Co-Ordinates

E 511586.27 N 180206.35

Final Depth

1.80m

Client

HDCI Hayes London Limited

Plant Used

**Hand Excavated/
Diamond Cored**

Sheet

1 of 1

STRATA

SAMPLES & TESTS

Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth	Type No	Test Result	Field Records
	28.70		(0.47) 0.47	Reinforced light grey CONCRETE, clasts are angular to rounded fine to coarse flint gravel (max. spacing between aggregates <8mm). Frequent air voids (<15mm). 0.09 ... with 1No Ø16mm rebar 0.10 ... with 1No Ø16mm rebar				
	28.50		(0.20) 0.67	0.43 ... with 1No Ø16mm rebar 0.44 ... with 2No Ø16mm rebars				
	28.35		0.82	Grey CONCRETE, clasts are angular to rounded fine to coarse flint gravel (max. spacing between aggregates <8mm). Frequent air voids (<10mm). 0.48 ... with 4No Ø16mm rebars 0.56 ... with a layer of black membrane	0.70	B1		
			(0.98) 1.80	Brownish grey very gravelly fine to medium SAND. Gravel comprises angular to subrounded fine to coarse flint, brick and concrete fragments. (MADE GROUND) CONCRETE.	1.00	B2		
	27.37		1.80	End of Trial Pit	1.80			... Borehole aborted at 1.80m depth (see Remarks)

GENERAL REMARKS

1. An inspection pit was hand excavated to 1.20m depth prior to borehole commencing. Concrete was diamond cored.
2. Borehole aborted at 1.80m depth due to presence of mass concrete. Location moved to position BH102B.
3. Borehole backfilled with bentonite pellets upon completion

Issue: FINAL

Driller: DJ

Logger: JKH

CHD: AN

APRV: OS

Log Print Date & Time:

07/02/2022 18:16

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 26/08/21
Date Completed 08/10/21

Ground Level (mOD)
29.18

Co-Ordinates
E 511575.43 N 180194.67

Final Depth
22.50m

Client

HDCI Hayes London Limited

BOREHOLE SUMMARY

Top (m)	Base (m)	Type	Date Started	Date Ended	Crew	Logged By	Barrel Type	Core Bit	Plant Used/ Method	SPT Hammer Reference
0.00 3.06	3.06 22.50	IP CP	26/08/2021 28/09/2021	06/09/2021 07/10/2021	DJ ST	JKH/TP TP			Hand Excavated Dando 1000	AR779

WATER STRIKES

WATER ADDED

CHISELLING / SLOW DRILLING

Strike at (m)	Rise to (m)	Time to Rise (min)	Casing Depth (m)	Sealed (m)	From (m)	To (m)	From (m)	To (m)	Duration (hr)	Remarks
21.75 22.50	20.24 21.87	20 20	7.50 7.50				15.10 15.50	15.50 16.00	00:35 00:40	Claystone Claystone

HOLE

CASING

Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)
0.00	250	0.00	250
2.66	250	2.66	250
6.10	200	6.10	200
22.50	150	7.50	150

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
GWMP	50	5.07	3.07	5.07	08/10/2021
GWMP	19	22.50	21.50	22.50	07/10/2021

BACKFILL DETAILS

Top (m)	Bottom (m)	Material	Backfill Date	Remarks
0.00	0.20	Concrete	08/10/2021	Flush Cover
0.20	3.07	Bentonite Pellets		
3.07	5.07	Pea Shingle		
5.07	8.00	Bentonite Pellets	07/10/2021	
8.00	19.00	Cement/Bentonite Grout		
19.00	21.50	Bentonite Pellets		
21.50	22.50	Sand Filter		

DYNAMIC SAMPLING /ROTARY RECOVERY

From (m)	To (m)	Duration (hr)	Recovery (%)

Issue: FINAL

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:14

Project

L4 Colt DCS Data Centre

Job No
21/3600Date Started 26/08/21
Date Completed 08/10/21Ground Level (mOD)
29.18Co-Ordinates
E 511575.43 N 180194.67Final Depth
22.50m

Client

HDCI Hayes London Limited

PROGRESS

SPT DETAILS

Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)	Remarks	Type	Depth (m)	N Value	Blow Count / 75mm	Casing Depth (m)	Water Depth (m)
26/08/21	0.00		Dry		C	3.50	N33	3, 4 / 7, 7, 9, 10	2.66	Wet
26/08/21	1.20		Dry		C	4.50	N44	7, 8 / 10, 11, 11, 12	4.50	2.80
06/09/21	1.20		Dry		S	7.50	N16	2, 2 / 3, 4, 4, 5	6.30	Dry
06/09/21	3.06		Dry		S	9.00	N16	2, 3 / 3, 3, 5, 5	7.50	Dry
28/09/21	3.06	2.66	2.50	... see Remark 3	S	10.50	N23	3, 3 / 4, 5, 6, 8	7.50	Dry
28/09/21	4.00	4.00	3.10		S	12.00	N16	2, 2 / 3, 3, 4, 6	7.50	Dry
29/09/21	4.00	4.00	3.10	... see Remark 4	S	13.50	N24	3, 3 / 4, 6, 6, 8	7.50	Dry
29/09/21	4.50	4.50	2.80		S	15.00	N50/71	2, 4 / 50	7.50	Dry
29/09/21	5.00	4.00	Dry		S	17.00	N29	3, 5 / 7, 7, 7, 8	7.50	Dry
29/09/21	6.00	6.00	Dry		S	18.50	N24	3, 3 / 3, 6, 7, 8	7.50	Dry
30/09/21	6.00	6.00	Dry		S	20.00	N25	3, 4 / 4, 6, 7, 8	7.50	Dry
30/09/21	13.95	7.50	Dry		S	21.50	N28	4, 5 / 7, 7, 7, 7	7.50	Dry
01/10/21	13.95	7.50	Dry							
01/10/21	20.45	7.50	Dry							
06/10/21	20.45	7.50	Dry							
06/10/21	21.50	7.50	Dry							
07/10/21	21.50	7.50	Dry							
07/10/21	21.75	7.50	21.75	... Water Strike						
07/10/21	22.50	7.50	22.50	... Water Strike						

GENERAL REMARKS

- Borehole advanced through WS216 inspection pit.
- Borehole location aborted at 3.06m on 06/09/21 due to concrete obstruction. Continued drilling pass the obstruction on 28/09/2021.
- Water entering the borehole between 06/10/2021 and 28/10/2021.
- Water entering the borehole between 28/10/2021 and 29/10/2021.
- Water seepage encountered at 21.75m depth, rising to 21.30m (5 mins), 21.00m (10 mins), 20.71m (15 mins) and 20.24m (20 mins).
- Water seepage encountered at 22.50m depth, rising to 22.36m (5 mins), 22.12m (10 mins), 21.97m (15 mins) and 21.87m (20 mins).
- Borehole aborted at 22.50m depth due to water seepage. Unable to case off.

KEY

SAMPLES

ES - Environmental Sample (Tub, Vial, Jar) AZCL: Assumed Zone of Core Loss
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

GMP - Gas monitoring point
GWMP - Groundwater monitoring point
SPIE - Standpipe piezometer
EPIE - Electronic Piezometer
SP - Standpipe

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, CPR-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

Issue: FINAL

CHD: AN

APRV: OS

Log Print Date & Time:

07/02/2022 18:14

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 26/08/21
Date Completed 08/10/21

Ground Level (mOD)
29.18

Co-Ordinates
E 511575.43 N 180194.67

Final Depth
22.50m

Client

HDCI Hayes London Limited

Method

Cable Percussion

Sheet

1 of 6

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
26/08/21		Dry	29.01		(0.17) 0.17	Light grey CONCRETE, clasts are angular to subrounded fine to coarse flint gravel (max. spacing between aggregates <15mm). Frequent air voids (<15mm).	0.17-0.50	B1			
						Light greyish brown very gravelly silty fine to medium SAND. Gravel comprises angular to subrounded fine to coarse flint, brick and concrete fragments. (MADE GROUND)	0.30 0.30	ES2		VOC 0.5ppm	
							0.50-0.80	B3			
							0.60 0.60	ES4		VOC 0ppm	
					(1.03)		0.80-1.00	B5			
						0.80 ... becoming light brownish grey with 1No metal fragment (<150mm)	0.90 0.90	ES6		VOC 0.1ppm	
26/08/21		Dry	27.98		1.20						
06/09/21		Dry				Grey very gravelly fine to medium SAND. Gravel comprises angular to subrounded fine to coarse flint and concrete fragments. (MADE GROUND)	1.50	B7			
					(0.80)						
			27.18		2.00		2.00 2.00 2.00	ES8 B9		VOC 0ppm	
					(0.60)	Grey very gravelly silty fine to coarse SAND with occasional wood fragments (<60mm). Gravel comprises angular to subrounded fine to coarse flint, brick, ceramic and concrete fragments. (MADE GROUND) 2.23 ... with a bitumen layer (<4mm)					
			26.58		2.60		2.50 2.50 2.50	ES10 B11		VOC 0ppm	
					(0.90)	Strong light grey reinforced CONCRETE, clasts are angular to rounded fine to coarse flint gravel (max. spacing between aggregate <5mm). Occasional air voids <18mm. 2.65 ... with 3No Ø18mm horizontal rebar 2.69 ... with 3No Ø10mm horizontal rebar 2.95 ... with 2No Ø15mm horizontal rebar					
06/09/21		Dry									
28/09/21	2.66	2.50									
			25.68		3.50		3.50 3.50-4.00	B12	N33	3, 4 / 7, 7, 9, 10	
						Dense, orangish and yellowish brown sandy angular to subrounded fine to coarse flint GRAVEL. (LYNCH HILL GRAVEL MEMBER)					
28/09/21	4.00	3.10									

Issue: FINAL

Logger: JKH/TP

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:14

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 26/08/21
Date Completed 08/10/21

Ground Level (mOD)
29.18

Co-Ordinates
E 511575.43 N 180194.67

Final Depth
22.50m

Client

HDCI Hayes London Limited

Method

Cable Percussion

Sheet

2 of 6

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
29/09/21	4.00	3.10			(1.50)						
29/09/21	4.50	2.80					4.50 4.50 4.50 4.50-5.00	ES13 B14	N44	7, 8 / 10, 11, 11, 12 VOC 0ppm	
29/09/21	4.00	Dry	24.18		5.00		5.00-5.30	B15			
			23.88		(0.30) 5.30	Dense, brown gravelly fine to coarse SAND. Gravel is angular to subrounded fine to coarse flint. (LYNCH HILL GRAVEL MEMBER)	5.30-5.45	D16			
					(0.70)	Firm, orangish brown CLAY. (THAMES GROUP: WEATHERED LONDON CLAY)					
29/09/21 30/09/21	6.00 6.00	Dry Dry	23.18		6.00	Firm, greyish brown CLAY. (THAMES GROUP: LONDON CLAY FORMATION - B)	6.00 6.00-6.45 6.00	U(38)17 ES18	15 blows	VOC 0ppm	
							6.50-6.95	U19	38 blows	90% Recovery	
						6.90 ... beoming fissured slightly micaceous and silty	6.90 7.00-7.45	D20 UT21	39 blows	100% Recovery	
						7.50 ... becoming very stiff	7.50 7.50 7.50-7.95	D22 D23	N16	2, 2 / 3, 4, 4, 5	
							8.00-8.45	U24	61 blows	100% Recovery	

Issue: FINAL

Logger: JKH/TP

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:14

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 26/08/21
Date Completed 08/10/21

Ground Level (mOD)
29.18

Co-Ordinates
E 511575.43 N 180194.67

Final Depth
22.50m

Client

HDCI Hayes London Limited

Method

Cable Percussion

Sheet

3 of 6

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
							8.50-8.95 8.50	UT25 D26	71 blows	100% Recovery	
							9.00 9.00 9.00-9.45	D27 D28	N16	2, 3 / 3, 3, 5, 5	
							9.50-9.95	U29	75 blows	100% Recovery	
						10.00 ... with partings of fine sand	10.00-10.45 10.00	UT30 D31	85 blows	100% Recovery	
							10.50 10.50 10.50-10.95	D32 D33	N23	3, 3 / 4, 5, 6, 8	
							11.00-11.45	U34	83 blows	100% Recovery	
							11.50-11.95 11.50	UT35 D36	85 blows	100% Recovery	
							12.00		N16	2, 2 / 3, 3, 4, 6	

Issue: FINAL

Logger: JKH/TP

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:14

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 26/08/21
Date Completed 08/10/21

Ground Level (mOD)
29.18

Co-Ordinates
E 511575.43 N 180194.67

Final Depth
22.50m

Client
HDCI Hayes London Limited

Method
Cable Percussion

Sheet
4 of 6

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
30/09/21 01/10/21	7.50 7.50	Dry Dry			(16.50)	12.00 ... with rare white flecks	12.00 12.00-12.45	D37 D38		100% Recovery	
							12.50-12.95	U39	89 blows		
							13.00-13.45 13.00	UT40 D41	90 blows		
							13.50 13.50 13.50-13.95	D42 D43	N24		
							14.00-14.45	U44	75 blows		
							14.50-14.95 14.50	UT45 D46	92 blows		
						15.00 ... with 1No pyrite nodule 15.00 - 16.00 ... with a band of claystone 15.05 - 15.50 ... with a band of claystone	15.00 15.00 15.00-15.45 15.10-15.50	D47 D48 B49	N50/71mm		
							15.50-16.00	B50			
							16.00-16.45	U51	90 blows		

Issue: FINAL

Logger: JKH/TP

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:14

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 26/08/21
Date Completed 08/10/21

Ground Level (mOD)
29.18

Co-Ordinates
E 511575.43 N 180194.67

Final Depth
22.50m

Client

HDCI Hayes London Limited

Method

Cable Percussion

Sheet
5 of 6

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
							16.50-16.95 16.50	UT52 D53	100 blows	100% Recovery	
							17.00 17.00 17.00-17.45	D54 D55	N29	3, 5 / 7, 7, 7, 8	
							17.50-17.95	U56	100 blows	100% Recovery	
						18.00 ... with 1No white shell fragment	18.00-18.45 18.00	UT57 D58	100 blows	100% Recovery	
							18.50 18.50 18.50-18.95	D59 D60	N24	3, 3 / 3, 6, 7, 8	
							19.00-19.45	U61	89 blows	100% Recovery	
							19.50-19.95 19.50	UT62 D63	84 blows	100% Recovery	
							20.00		N25	3, 4 / 4, 6, 7, 8	

Issue: FINAL

Logger: JKH/TP

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:14

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 26/08/21
Date Completed 08/10/21

Ground Level (mOD)
29.18

Co-Ordinates
E 511575.43 N 180194.67

Final Depth
22.50m

Client
HDCI Hayes London Limited

Method
Cable Percussion

Sheet
6 of 6

PROGRESS			STRATA			SAMPLES & TESTS				Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
01/10/21 06/10/21	7.50 7.50	Dry Dry					20.00 20.00-20.45	D64 D65			
							20.50-20.95	U66	90 blows	100% Recovery	
						21.00 ... with occasional bioturbation	21.00-21.45 21.00	UT67 D68	91 blows	100% Recovery	
06/10/21 07/10/21	7.50 7.50	Dry Dry					21.50 21.50 21.50-21.95	D69 D70	N28	4, 5 / 7, 7, 7, 7	
07/10/21	7.50	21.75									
07/10/21	7.50	22.50	6.68		22.50	22.50 ... with occasional white flecks End of Borehole	22.50			... Borehole aborted at 22.50m depth (see Remarks)	

Issue: FINAL

Logger: JKH/TP

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:14

Project

L4 Colt DCS Data Centre

Job No

21/3600

Date Started

09/09/21

Date Completed

09/09/21

Ground Level (mOD)

29.69

Co-Ordinates

E 511505.79 N 180225.51

Final Depth

1.10m

Client

HDCI Hayes London Limited

Plant Used

Hand Excavated

Sheet

1 of 1

STRATA

SAMPLES & TESTS

Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth	Type No	Test Result	Field Records
	29.59		0.10	Asphalt. (MADE GROUND)				
	29.44		0.25	Reinforced CONCRETE.				
	29.24		(0.20) 0.45	Dark brown gravelly silty SAND with low brick cobble content. Gravel comprises angular to subangular fine to coarse flint and brick fragments. (MADE GROUND)				
	28.89		(0.35) 0.80	Soft to firm, dark grey slightly gravelly sandy SILT. Gravel is angular fine to coarse flint. (MADE GROUND)				
	28.59		(0.30) 1.10	Firm, brown slightly gravelly slightly sandy silty CLAY. Gravel is subangular to subrounded fine to coarse flint. (MADE GROUND)	1.10			
				End of Trial Pit				... A Ø100mm clay pipe encountered at 1.10m Pit aborted at 1.10m depth (see Remarks)

GENERAL REMARKS

1. An inspection pit was hand excavated prior to borehole commencing.
2. Pit aborted at 1.10m depth due to presence of unidentified services. Location moved to position BH103A.
3. Pit backfilled with soil arisings and made good upon completion

Issue: FINAL

Driller: DJ

Logger: FT

CHD: AN

APRV: OS

Log Print Date & Time:

07/02/2022 18:16

Project
L4 Colt DCS Data Centre

Job No 21/3600	Date Started 09/08/21 Date Completed 16/08/21	Ground Level (mOD) 29.70	Co-Ordinates E 511506.31 N 180227.49	Final Depth 40.00m
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Client
HDCI Hayes London Limited

BOREHOLE SUMMARY

Top (m)	Base (m)	Type	Date Started	Date Ended	Crew	Logged By	Barrel Type	Core Bit	Plant Used/ Method	SPT Hammer Reference
0.00 1.20	1.20 57.00	IP CP	09/08/2021 09/08/2021	09/08/2021 12/08/2021	DJ DJ	FT/JKH JKH			Hand Excavated Dando 2000	AR3552

WATER STRIKES

WATER ADDED

CHISELLING / SLOW DRILLING

Strike at (m)	Rise to (m)	Time to Rise (min)	Casing Depth (m)	Sealed (m)	From (m)	To (m)	From (m)	To (m)	Duration (hr)	Remarks
					1.20	8.50				

HOLE

CASING

Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)
0.00 15.00 40.00	200 200 150	0.00 13.00 20.00	200 200 150

DYNAMIC SAMPLING /ROTARY RECOVERY

From (m)	To (m)	Duration (hr)	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
GWMP	50	11.70	1.20	11.70	16/08/2021

BACKFILL DETAILS

Top (m)	Bottom (m)	Material	Backfill Date	Remarks
0.00 0.20 1.20 11.70 14.00	0.20 1.20 11.70 14.00 40.00	Concrete Bentonite Pellets Pea Shingle Bentonite Pellets Cement/Bentonite Grout	16/08/2021	Flush Cover

Project**L4 Colt DCS Data Centre****Job No****21/3600****Date Started**

09/08/21

Date Completed

16/08/21

Ground Level (mOD)

29.70

Co-Ordinates

E 511506.31 N 180227.49

Final Depth

40.00m

Client**HDCI Hayes London Limited****PROGRESS****SPT DETAILS**

Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)	Remarks	Type	Depth (m)	N Value	Blow Count / 75mm	Casing Depth (m)	Water Depth (m)
09/08/21	0.00		Dry	... Water Added	C	1.20	N93	12, 13 / 22, 19, 26, 26		Dry
09/08/21	1.20		Dry		C	2.50	N89	7, 15 / 20, 21, 24, 24	2.50	1.50
09/08/21	1.80		Wet		C	4.00	N34	2, 4 / 8, 9, 9, 8	4.00	3.00
09/08/21	2.50	2.50	1.50		C	5.50	N13	3, 3 / 4, 2, 3, 4	5.50	4.10
09/08/21	4.00	4.00	3.00		C	7.00	N35	5, 6 / 7, 8, 10, 10	7.00	5.10
09/08/21	5.50	5.50	4.10		C	8.50	N10	1, 2 / 2, 2, 2, 4	8.50	4.60
09/08/21	7.00	7.00	5.10		C	10.00	N21	3, 5 / 5, 4, 6, 6	10.00	5.60
09/08/21	8.50	8.50	4.60		C	11.50	N21	4, 4 / 5, 5, 5, 6	11.50	5.60
09/08/21	8.70	8.70	4.60		S	13.20	N27	2, 4 / 5, 6, 8, 8	12.00	11.00
10/08/21	8.70	8.70	3.90		S	14.80	N26	3, 3 / 5, 6, 7, 8	13.00	11.00
10/08/21	10.00	10.00	5.60		S	16.20	N37	3, 4 / 5, 7, 7, 18	16.20	15.00
10/08/21	12.00	12.00	11.00		S	17.80	N28	4, 4 / 5, 7, 7, 9	17.80	15.50
10/08/21	15.30	15.30	14.70		S	19.40	N22	3, 4 / 4, 5, 6, 7	19.40	17.50
10/08/21	16.20	16.20	15.00		S	21.50	N30	3, 5 / 6, 7, 8, 9	20.00	3.80
10/08/21	17.80	17.80	15.50		S	23.00	N29	4, 5 / 5, 7, 8, 9	20.00	5.00
10/08/21	19.40	19.40	17.50		S	24.50	N34	3, 5 / 7, 8, 9, 10	20.00	5.10
10/08/21	20.50	20.00	18.50		S	26.00	N33	3, 4 / 5, 8, 9, 11	20.00	5.60
11/08/21	20.50	20.00	3.40		S	27.50	N31	4, 4 / 7, 7, 8, 9	20.00	5.30
11/08/21	21.50	20.00	3.80		S	29.00	N35	4, 5 / 7, 7, 10, 11	20.00	5.60
11/08/21	23.00	20.00	5.00		S	30.50	N35	5, 5 / 7, 9, 9, 10	20.00	6.00
11/08/21	24.50	20.00	5.10		S	32.00	N39	4, 6 / 8, 10, 10, 11	20.00	6.20
11/08/21	26.00	20.00	5.60		S	33.40	N48	4, 6 / 7, 9, 11, 21	20.00	6.70
11/08/21	27.50	20.00	5.30		S	35.40	N34	4, 5 / 6, 8, 9, 11	20.00	7.00
11/08/21	29.00	20.00	5.60							
11/08/21	30.50	20.00	6.00							
11/08/21	32.00	20.00	6.20							
11/08/21	32.00	20.00	6.50							
11/08/21	33.40	20.00	6.70							
11/08/21	34.50	20.00	7.00							
11/08/21	36.45	20.00	7.30							
12/08/21	36.45	20.00	3.10							
12/08/21	36.90	20.00	4.70							
12/08/21	39.00	20.00	5.20							
12/08/21	40.00	20.00	7.00							

GENERAL REMARKS

1. Unable to seal off the water. Water kept seeping in under the casing throughout the London Clay Formation.

KEY**SAMPLES**

ES - Environmental Sample (Tub, Vial, Jar) AZCL: Assumed Zone of Core Loss
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

GMP - Gas monitoring point
GWMP - Groundwater monitoring point
SPIE - Standpipe piezometer
EPIE - Electronic Piezometer
SP - Standpipe

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, CPR-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

Issue: **FINAL**CHD: **AN**APRV: **OS**

Log Print Date & Time:

07/02/2022 18:14

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 09/08/21
Date Completed 16/08/21

Ground Level (mOD)
29.70

Co-Ordinates
E 511506.31 N 180227.49

Final Depth
40.00m

Client
HDCI Hayes London Limited

Method
Cable Percussion

Sheet
1 of 4

PROGRESS			STRATA			SAMPLES & TESTS				Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
09/08/21		Dry	29.60		0.10	Asphalt.	0.30			VOC 0ppm	
			29.45		0.25	(MADE GROUND)	0.30	ES1			
			29.25		0.45	Reinforced CONCRETE.					
			28.90		0.80	Dark brown gravelly silty fine to coarse SAND with low brick cobble content. Gravel comprises angular to subangular fine to coarse flint and brick fragments.	1.00			VOC 0ppm	
09/08/21		Dry	28.50		1.20	(MADE GROUND)	1.00	ES2	N93	12, 13 / 22, 19, 26, 26	
						Soft to firm, dark grey slightly gravelly sandy SILT. Gravel is angular fine to coarse flint. (LANGLEY SILT MEMBER)	1.20	B3		VOC 0ppm	
09/08/21		Wet				Firm, brown slightly sandy silty CLAY with low flint cobble content. (LANGLEY SILT MEMBER)	1.50	ES4			
							1.80-2.30	B5			
09/08/21	2.50	1.50			(2.80)	Very dense, orangish brown sandy silty subangular to rounded fine to coarse flint GRAVEL. Sand is fine to coarse. (LYNCH HILL GRAVEL MEMBER)	2.50		N89	7, 15 / 20, 21, 24, 24	
						2.50 ... becoming dark brown with no silt	2.50	ES6		VOC 0ppm	
							2.50	B7			
							3.30-3.60	B8		VOC 0ppm	
							3.50				
							3.50	ES9			
09/08/21	4.00	3.00	25.70		4.00	Dense, greenish grey silty fine to coarse SAND. (LYNCH HILL GRAVEL MEMBER)	4.00		N34	2, 4 / 8, 9, 9, 8	
					(0.50)		4.00	B10			
			25.20		4.50	Dense, brown fine to coarse SAND and subangular to rounded fine to coarse flint GRAVEL. (LYNCH HILL GRAVEL MEMBER)	4.50			VOC 0ppm	
							4.50-5.00	ES11			
							4.50	B12			
09/08/21	5.50	4.10				5.50 ... becoming medium dense	5.50		N13	3, 3 / 4, 2, 3, 4	
							5.50	ES13		VOC 0ppm	
							5.50	B14			
							6.40-6.80	B15		VOC 0ppm	
							6.50				
							6.50	ES16			
09/08/21	7.00	5.10				7.00 ... becoming dense	7.00		N35	5, 6 / 7, 8, 10, 10	
							7.00	B17		VOC 0ppm	
							7.50				
							7.50	ES18			
							7.60-8.00	B19			
09/08/21	8.50	4.60				8.50 ... becoming loose to medium dense	8.50		N10	1, 2 / 2, 2, 2, 4	
							8.50			VOC 0ppm	
09/08/21	8.70	4.60					8.50	ES20			
10/08/21	8.70	3.90					8.50	B21			
							8.50-10.00	AMAL21A			
							9.00-9.50	B22			
							9.50			VOC 0ppm	
							9.50	ES23			
10/08/21	10.00	5.60				10.00 ... becoming medium dense	10.00		N21	3, 5 / 5, 4, 6, 6	
							10.00	B24		VOC 0ppm	
							10.50				
							10.50	ES25			
							10.60-11.00	B26			

Issue: FINAL

Logger: FT/JKH

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:14

Project

L4 Colt DCS Data Centre

Job No 21/3600	Date Started 09/08/21	Ground Level (mOD) 29.70	Co-Ordinates E 511506.31 N 180227.49	Final Depth 40.00m
Date Completed 16/08/21				
Client HDCI Hayes London Limited	Method Cable Percussion			Sheet 2 of 4

PROGRESS			STRATA			SAMPLES & TESTS				Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
10/08/21	12.00	11.00	18.00		11.70	Very stiff, brown mottled orangish brown and dark grey slightly gravelly slightly micaceous silty CLAY. Gravel is angular to subrounded fine to coarse flint. (THAMES GROUP: WEATHERED LONDON CLAY)	11.50		N21	4, 4 / 5, 5, 5, 6 VOC 0ppm	
			17.70		12.00		11.50	ES27			
							11.50	B28			
							11.50	D29			
							12.00-12.45	U30			
							12.30-12.75	U31	35 blows	100% Recovery	
							12.75	D32			
							12.80-13.15	UT33	38 blows	78% Recovery	
							13.15	D34			
							13.20	D35	N27	2, 4 / 5, 6, 8, 8	
							13.20-13.65				
							13.80-14.25	U36	75 blows	100% Recovery	
							14.25	D37			
							14.30-14.75	UT38	75 blows	100% Recovery	
							14.75	D39			
							14.80	D40	N26	3, 3 / 5, 6, 7, 8	
							14.80-15.25				
10/08/21	15.30	14.70					15.30-15.75	U41	55 blows	100% Recovery	
							15.75	D42			
							15.80-16.15	UT43	55 blows	78% Recovery	
							16.15	D44			
							16.20	D45	N37	3, 4 / 5, 7, 7, 18	
							16.20-16.65				
							16.60 - 16.80 ... with band of claystone	U46	75 blows	89% Recovery	
							17.20	D47			
							17.30-17.75	UT48	75 blows	89% Recovery	
							17.70	D49			
							17.80	D50	N28	4, 4 / 5, 7, 7, 9	
							17.80-18.25				
							18.40-18.85	U51	75 blows	89% Recovery	
							18.80	D52			
							18.90-19.35	UT53	75 blows	100% Recovery	
							19.35	D54			
							19.40	D55	N22	3, 4 / 4, 5, 6, 7	
							19.40-19.85				
							20.00-20.45	U56	70 blows	100% Recovery	
							20.45	D57			
							20.50-20.90	B58	80 blows	0% Recovery	
							21.00-21.45	UT59	75 blows	100% Recovery	
							21.45	D60			
							21.50	D61	N30	3, 5 / 6, 7, 8, 9	
							21.50-21.95				
							22.00-22.45	U62	80 blows	100% Recovery	

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 09/08/21
Date Completed 16/08/21

Ground Level (mOD)
29.70

Co-Ordinates
E 511506.31 N 180227.49

Final Depth
40.00m

Client
HDCI Hayes London Limited

Method
Cable Percussion

Sheet
3 of 4

PROGRESS			STRATA			SAMPLES & TESTS				Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
11/08/21	20.00	5.00	6.75		22.95	22.45 ... with rare pockets of dark grey silty fine sand (<10mm) and lenses of white silt (<5mm)	22.45 22.50-22.95	D63 UT64	75 blows	89% Recovery	
11/08/21	20.00	5.10				Very stiff, brownish grey slightly sandy slightly micaceous silty CLAY with rare pockets of light grey silt (<5mm), lenses of white silt (<5mm), frequent bioturbation, occasional off-white shell fragments(<10mm) and white flecks. (THAMES GROUP: LONDON CLAY FORMATION - A3ii)	22.95 23.00 23.00-23.45	D65 D66	N29	4, 5 / 5, 7, 8, 9	
11/08/21	20.00	5.60				22.95 ... becoming slightly sandy	23.50-23.95	U67	80 blows	100% Recovery	
11/08/21	20.00	5.30				24.45 ... with frequent pockets of light brown fine sand (<20mm)	24.00-24.45	UT68	75 blows	100% Recovery	
11/08/21	20.00	5.60				25.95 ... with frequent pockets of light grey fine sand (<10mm)	24.45 24.50 24.50-24.95	D69 D70	N34	3, 5 / 7, 8, 9, 10	
11/08/21	20.00	6.00				26.90 ... with rare partings of light brown fine sand, occasional pockets of dark grey silty fine sand (<10mm) and off-white shell fragments (<10mm)	25.00-25.45	U71	80 blows	100% Recovery	
11/08/21	20.00	6.20				28.45 ... with occasional partings of light brown fine sand	25.45 25.50-25.95	D72 UT73	75 blows	100% Recovery	
11/08/21	20.00	6.50				30.40 ... with rare extremely weak brown claystone fragments (<50mm)	25.95 26.00 26.00-26.45	D74 D75	N33	3, 4 / 5, 8, 9, 11	
11/08/21	20.00	6.20				31.45 ... with rare pockets of light brown fine sand (<15mm)	26.50-26.95	U76	80 blows	89% Recovery	
11/08/21	20.00	6.50				31.95 ... with rare partings of light brown silt and fine sand	26.90 27.00-27.45	D77 UT78	80 blows	100% Recovery	
11/08/21	20.00	6.50				32.50-32.95	27.45 27.50 27.50-27.95	D79 D80	N31	4, 4 / 7, 7, 8, 9	
11/08/21	20.00	6.50				32.90-33.35	28.00-28.45	U81	80 blows	100% Recovery	
11/08/21	20.00	6.50				32.90-33.35	28.45 28.50-28.95	D82 UT83	75 blows	89% Recovery	
11/08/21	20.00	6.50				32.90-33.35	28.90 29.00 29.00-29.45	D84 D85	N35	4, 5 / 7, 7, 10, 11	
11/08/21	20.00	6.50				32.90-33.35	29.50-29.95	U86	80 blows	100% Recovery	
11/08/21	20.00	6.50				32.90-33.35	29.95 30.00-30.45	D87 UT88	80 blows	89% Recovery	
11/08/21	20.00	6.50				32.90-33.35	30.40 30.50 30.50-30.95	D89 D90	N35	5, 5 / 7, 9, 9, 10	
11/08/21	20.00	6.50				32.90-33.35	31.00-31.45	U91	90 blows	89% Recovery	
11/08/21	20.00	6.50				32.90-33.35	31.45 31.50-31.95	D92 UT93	80 blows	100% Recovery	
11/08/21	20.00	6.50				32.90-33.35	31.95 32.00 32.00	D94 D95	N39	4, 6 / 8, 10, 10, 11	
11/08/21	20.00	6.50				32.90-33.35	32.50-32.95	U96	90 blows	78% Recovery	
11/08/21	20.00	6.50				32.90-33.35	32.85 32.90-33.35	D97 UT98	80 blows	89% Recovery	
11/08/21	20.00	6.50				32.90-33.35	32.90-33.35	UT98	80 blows	89% Recovery	

Issue: FINAL

Logger: FT/JKH

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:14

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 09/08/21
Date Completed 16/08/21

Ground Level (mOD)
29.70

Co-Ordinates
E 511506.31 N 180227.49

Final Depth
40.00m

Client
HDCI Hayes London Limited

Method
Cable Percussion

Sheet
4 of 4

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
11/08/21	20.00	6.70				CLAY, (THAMES GROUP: LONDON CLAY FORMATION - A3i) 32.85 ... with occasional pockets of light brown fine sand (<30mm), rare pockets of light grey fine sand (<10mm) and lenses of white silt (<5mm) 34.00 - 34.20 ... with band of claystone	33.30 33.40 33.40-33.85 34.00-34.45	D99 D100 B101	N48 80 blows	4, 6 / 7, 9, 11, 21 0% Recovery	
11/08/21	20.00	7.00			(2.65)		34.50-34.95	U102	90 blows	100% Recovery	
							34.95 35.00-35.45	D103 UT104	80 blows	67% Recovery	
			-5.80		35.50		35.40 35.40-35.85 35.50	D105 D106	N34	4, 5 / 6, 8, 9, 11	
11/08/21	20.00	7.30				Very stiff, brownish grey slightly micaceous silty CLAY with rare partings of light brown fine sand. (THAMES GROUP: LONDON CLAY FORMATION - A2) 35.50 ... with rare partings of light brown fine sand	36.00-36.45	U107	90 blows	100% Recovery	
12/08/21	20.00	3.10					36.45 36.50-36.95	D108 UT109	80 blows	67% Recovery	
12/08/21	20.00	4.70				36.80 ... with occasional pockets of light brown fine sand (<20mm), frequent white flecks, bioturbation, rare pyrite nodules (<5mm) and off-white shell fragments (<10mm) 36.90 ... with rare pockets of dark grey and dark grey silt (<20mm) 37.50 - 37.90 ... with a band of claystone	36.80 36.90-37.35 37.50-37.90	D110 D111 B112	80 blows	0% Recovery	
					(4.50)		38.00-38.45	U113	90 blows	45% Recovery	
						38.45 ... with occasional partings of light brown fine sand	38.45 38.50-38.95	D114 UT115	80 blows	89% Recovery	
12/08/21	20.00	5.20				39.00 ... with rare lenses of white silt	38.90 39.00-39.45	D116 D117			
							39.50-39.95	U118	90 blows	100% Recovery	
12/08/21	20.00	7.00	-10.30		40.00	39.95 ... becoming slightly sandy with frequent pockets of dark grey light brown and light grey fine sand (<10mm) and foraminifera End of Borehole	39.95 40.00	D119 D120			

Issue: FINAL

Logger: FT/JKH

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:14

Project

L4 Colt DCS Data Centre

Job No

21/3600

Date Started

06/09/21

Date Completed

06/09/21

Ground Level (mOD)

29.13

Co-Ordinates

E 511500.93 N 180169.11

Final Depth

1.70m

Client

HDCI Hayes London Limited

Plant Used

Hand Excavated

Sheet

1 of 1

STRATA

SAMPLES & TESTS

Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth	Type No	Test Result	Field Records
	28.93		(0.20) 0.20	Asphalt. (MADE GROUND)				
			(0.40)	Brown very gravelly fine to medium SAND. Gravel comprises angular to subrounded fine to coarse flint, brick and concrete fragments. (MADE GROUND)	0.30 0.30 0.30	ES1 B2		VOC 0.1ppm
	28.53		0.60	Brown and greenish grey gravelly silty fine to medium SAND. Gravel comprises angular to subrounded fine to coarse flint and brick fragments. (MADE GROUND)	0.70 0.70 0.70	ES3 B4		VOC 0ppm
			(1.10)	1.20 ... becoming orangish brown and very gravelly	1.05 1.30 1.30 1.30	ES5 B6		... Black duct with no CAT response encountered at 1.05m depth VOC 0ppm
	27.43		1.70	End of Trial Pit	1.70			... Pit aborted at 1.70m depth (see Remarks)

GENERAL REMARKS

1. An inspection pit was hand excavated prior to borehole commencing.
2. Pit aborted at 1.70m depth due to presence of strong CAT signal. Location moved to position BH104A.
3. Pit backfilled with soil arisings and made good upon completion

Issue: FINAL

Driller: DJ

Logger: JKH

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:16

Project

L4 Colt DCS Data Centre

Job No

21/3600

Date Started

16/09/21

Ground Level (mOD)

29.13

Co-Ordinates

E 511501.73 N 180167.53

Final Depth

1.50m

Client

HDCI Hayes London Limited

Plant Used

Hand Excavated

Sheet

1 of 1

STRATA

SAMPLES & TESTS

Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth	Type No	Test Result	Field Records
	29.10		0.03	Asphalt. (MADE GROUND)				
	28.91		0.22	Reinforced grey CONCRETE.				
			(0.38)	Light brownish grey gravelly silty fine to medium SAND. Gravel comprises angular to subangular fine to coarse flint, concrete and brick fragments. (MADE GROUND)	0.30 0.30 0.30	ES1 B2		VOC 0ppm
	28.53		0.60	0.22 ... with black membrane 0.52 ... with medium to high brick cobble content	0.60 0.60 0.60	ES3 B4		VOC 0ppm
			(0.90)	Firm to stiff, brownish grey slightly gravelly sandy CLAY with medium brick cobble content. Gravel comprises angular to subrounded fine to coarse flint, brick and concrete fragments. (MADE GROUND)	1.00 1.00-1.20 1.00-1.20	ES5 B6		VOC 0ppm
	27.63		1.50	End of Trial Pit	1.50			... Pit aborted at 1.50m depth (see Remarks)

GENERAL REMARKS

1. An inspection pit was hand excavated prior to borehole commencing.
2. Pit aborted at 1.50m depth due to presence of strong CAT signal. Location moved to position BH104B.
3. Pit backfilled with soil arisings and made good upon completion

Issue: FINAL

Driller: DJ

Logger: JKH

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:16

Project

L4 Colt DCS Data Centre

Job No 21/3600	Date Started 16/09/21 Date Completed 16/09/21	Ground Level (mOD) 29.15	Co-Ordinates E 511498.63 N 180168.66	Final Depth 0.73m
Client HDCI Hayes London Limited			Plant Used Hand Excavated	Sheet 1 of 1

STRATA					SAMPLES & TESTS			Field Records
Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth	Type No	Test Result	
	29.12		0.03	Asphalt. (MADE GROUND)				
			(0.22)	Reinforced light grey CONCRETE.				
	28.90		0.25					
	28.80		0.35	Brickwork. (MADE GROUND)				
				Grey CONCRETE.				
			(0.38)					
	28.42		0.73		0.73			
				End of Trial Pit				... Pit aborted at 0.73m depth (see Remarks)

GENERAL REMARKS

1. An inspection pit was hand excavated prior to borehole commencing.
2. Pit aborted at 0.73m depth due to presence of concrete obstruction and possible services. Location moved to position BH104C.
3. Pit backfilled with soil arisings and made good upon completion

Project

L4 Colt DCS Data Centre

Job No 21/3600	Date Started 15/09/21 Date Completed 29/09/21	Ground Level (mOD) 29.28	Co-Ordinates E 511500.52 N 180144.85	Final Depth 50.45m
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Client

HDCI Hayes London Limited

BOREHOLE SUMMARY

Top (m)	Base (m)	Type	Date Started	Date Ended	Crew	Logged By	Barrel Type	Core Bit	Plant Used/ Method	SPT Hammer Reference
0.00 2.20	2.20 50.45	IP CP	15/09/2021 17/09/2021	15/09/2021 27/09/2021	ST ST	JKH/CS CS			Hand Excavated Dando 175	AR779

WATER STRIKES

WATER ADDED

CHISELLING / SLOW DRILLING

Strike at (m)	Rise to (m)	Time to Rise (min)	Casing Depth (m)	Sealed (m)	From (m)	To (m)	From (m)	To (m)	Duration (hr)	Remarks
3.10 48.45	3.10 48.45	20 20	2.50 32.00				23.00 30.50 36.00 37.00	23.40 31.00 36.50 37.30	00:30 00:30 00:40 00:20	Claystone Claystone Claystone Claystone

HOLE

CASING

Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)
0.00 24.45 50.45	200 200 150	0.00 8.25 32.00	200 200 150

DYNAMIC SAMPLING /ROTARY RECOVERY

From (m)	To (m)	Duration (hr)	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
GWMP	50	6.00	2.00	6.00	29/09/2021

BACKFILL DETAILS

Top (m)	Bottom (m)	Material	Backfill Date	Remarks
0.00 0.20 2.00 6.00 13.10	0.20 2.00 6.00 13.10 50.45	Concrete Bentonite Pellets Pea Shingle Bentonite Pellets Cement/Bentonite Grout	29/09/2021	Flush Cover

Project**L4 Colt DCS Data Centre**

Job No 21/3600	Date Started 15/09/21 Date Completed 29/09/21	Ground Level (mOD) 29.28	Co-Ordinates E 511500.52 N 180144.85	Final Depth 50.45m
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Client**HDCI Hayes London Limited**

PROGRESS					SPT DETAILS					
Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)	Remarks	Type	Depth (m)	N Value	Blow Count / 75mm	Casing Depth (m)	Water Depth (m)
15/09/21	0.00		Dry		C	2.50	N35	4, 7 / 8, 9, 9, 9	2.50	Dry
15/09/21	2.20		Dry		C	3.50	N21	4, 5 / 5, 5, 5, 6	3.50	2.50
17/09/21	2.20		Dry		C	4.50	N32	4, 5 / 5, 9, 9, 9	4.50	2.50
17/09/21	3.10		3.10	... Water Strike	C	5.50	N21	3, 5 / 6, 6, 6, 3	5.50	3.30
17/09/21	3.50	3.50	2.50		S	8.00	N20	2, 2 / 3, 5, 6, 6	5.50	Dry
17/09/21	4.50	4.50	3.30		S	9.50	N20	2, 3 / 3, 5, 5, 7	8.25	Dry
17/09/21	5.50	5.50	4.10		S	11.00	N21	3, 3 / 5, 5, 5, 6	8.25	Dry
17/09/21	6.50	5.50	Dry		S	12.50	N25	4, 4 / 5, 6, 6, 8	8.25	Dry
20/09/21	6.50	5.50	2.35	... see Remark 3	S	14.00	N27	3, 5 / 5, 6, 8, 8	8.25	Dry
20/09/21	7.00	6.95	Dry		S	15.50	N26	3, 4 / 5, 5, 8, 8	8.25	Dry
20/09/21	18.95	8.25	Dry		S	17.00	N39	6, 6 / 7, 9, 11, 12	8.25	Dry
21/09/21	18.95	8.25	Dry		S	18.50	N37	4, 4 / 7, 9, 10, 11	8.25	Dry
21/09/21	24.45	24.38	Dry		S	20.00	N41	4, 6 / 8, 9, 12, 12	8.25	Dry
22/09/21	24.45	24.38	Dry		S	21.50	N33	5, 6 / 7, 7, 9, 10	8.25	Dry
22/09/21	31.50	24.00	Dry		S	23.00	N34	4, 5 / 8, 8, 8, 10	8.25	Dry
23/09/21	31.50	24.00	0.50	... see Remark 4	S	24.50	N31	4, 6 / 6, 8, 8, 9	8.25	Dry
23/09/21	32.00	24.00	Dry		S	26.00	N37	5, 6 / 8, 9, 10, 10	24.00	Dry
23/09/21	35.45	32.00	Dry		S	27.50	N30	4, 4 / 5, 7, 8, 10	24.00	Dry
24/09/21	35.45	32.00	34.30	... see Remark 5	S	29.00	N42	5, 7 / 8, 11, 11, 12	24.00	Dry
24/09/21	35.50	32.00	Dry		S	30.50	N50/285	6, 7 / 14, 16, 12, 8	24.00	Dry
24/09/21	47.45	32.00	Dry		S	32.00	N39	5, 5 / 6, 10, 11, 12	24.00	Dry
27/09/21	47.45	32.00	40.20	... see Remark 6	S	33.50	N44	6, 7 / 9, 10, 11, 14	32.00	Dry
27/09/21	48.45	32.00	48.45	... Water Strike	S	35.00	N43	7, 7 / 9, 9, 12, 13	32.00	Dry
27/09/21	50.45	32.00	50.00		S	36.50	N42	6, 9 / 9, 10, 11, 12	32.00	Dry
					S	38.50	N42	14, 7 / 7, 11, 12, 12	32.00	Dry
					S	40.00	N50/295	6, 9 / 12, 13, 13, 12	32.00	Dry
					S	41.00	N46	6, 9 / 10, 12, 12, 12	32.00	Dry
					S	42.50	N50/259	9, 9 / 15, 15, 15, 5	32.00	Dry
					S	44.00	N50/295	9, 12 / 12, 11, 13, 14	32.00	Dry
					S	45.45	N50/290	6, 9 / 12, 13, 15, 10	32.00	Dry
					S	47.00	N50/225	6, 11 / 14, 16, 20	32.00	Dry
					C	48.50	N50/138	15, 10 / 25, 25	32.00	Wet
					S	50.00	N50/260	5, 10 / 12, 14, 15, 9	32.00	Wet

GENERAL REMARKS

- Borehole carried out from the base of IT501. For sampling refer to IT501 log.
- Water seepage encountered at 3.10m depth with no rise. 3. Water entering the borehole between 17/09/2021 and 20/09/2021.
- Water entering the borehole between 22/09/2021 and 23/09/2021.
- Water entering the borehole between 23/09/2021 and 24/09/2021.
- Water entering the borehole between 24/09/2021 and 27/09/2021.
- Slight water seepage encountered at 48.45m depth with no rise.

KEY**SAMPLES**

ES	- Environmental Sample (Tub, Vial, Jar)	AZCL: Assumed Zone of Core Loss
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

GMP	- Gas monitoring point	IP	- Inspection Pit, TP-Trial Pit TT - Trial Trench
GWMP	- Groundwater monitoring point	CP	- Cable Percussion, RC-Rotary Coring, R/S-Rotary/Sonic
SPIE	- Standpipe piezometer	DS	- Dynamic Sampling, DS/R-Dynamic Sampling / Rotary
EPIE	- Electronic Piezometer	DC	- Diamond Coring, C/P-R-Cable Percussion Rotary follow on
SP	- Standpipe		

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

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 15/09/21
Date Completed 29/09/21

Ground Level (mOD)
29.28

Co-Ordinates
E 511500.52 N 180144.85

Final Depth
50.45m

Client
HDCI Hayes London Limited

Method
Cable Percussion

Sheet
1 of 5

PROGRESS			STRATA			SAMPLES & TESTS				Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
15/09/21		Dry	29.23		0.05	Asphalt.	0.00			... For IP sampling refer to IT501	
			29.03		0.25	(MADE GROUND)					
		28.68		0.60	Reinforced light grey CONCRETE.						
					(1.10)	Brownish grey very gravelly silty fine to coarse SAND. Gravel comprises angular to subrounded fine to coarse flint, brick and concrete fragments. (MADE GROUND) 0.25 ... with blue sheeting					
				27.58		1.70	Orangish brown gravelly fine to medium SAND. Gravel is angular to subrounded fine to coarse flint.	2.00-2.50	B1		
				27.28		2.00	(LYNCH HILL GRAVEL MEMBER) 1.60 - 1.70 ... becoming greenish grey and very clayey				
15/09/21			Dry			(0.50)					
17/09/21				26.78		2.50	Orangish brown mottled light brown gravelly silty fine to medium SAND with frequent pockets of light greenish brown clayey fine to medium sand (<200mm). Gravel is angular to subrounded fine to coarse flint. (LYNCH HILL GRAVEL MEMBER)	2.50		N35	4, 7 / 8, 9, 9, 9 VOC 0ppm
								2.50	ES2		
								2.50-3.00	B3		
17/09/21		3.10									
17/09/21	3.50	2.50			(2.00)	Light brown gravelly fine to medium SAND. Gravel is angular to subrounded fine to coarse flint. (LYNCH HILL GRAVEL MEMBER)	3.50		N21	4, 5 / 5, 5, 5, 6 VOC 0ppm	
							3.50	ES4			
							3.50-4.00				
						Dense, light brown angular to subrounded fine to coarse flint GRAVEL and fine to medium SAND. (LYNCH HILL GRAVEL MEMBER)	3.50-4.00	B5			
17/09/21	4.50	3.30	24.78		4.50		4.50		N32	4, 5 / 5, 9, 9, 9 VOC 0ppm	
							4.50	ES6			
							4.50-5.00				
						Dense, brown sandy angular to subrounded fine to coarse flint GRAVEL. Sand is fine to medium. (LYNCH HILL GRAVEL MEMBER)	4.50-5.00	B7			
17/09/21	5.50	4.10			(1.50)		5.50		N21	3, 5 / 6, 6, 6, 3 VOC 0ppm	
							5.50	ES8			
							5.50-6.00				
							5.50-6.00	B9			
			23.28		6.00		6.00			VOC 0ppm	
17/09/21	5.50	Dry				Very stiff, brownish grey slightly micaceous silty CLAY with occasional bioturbation. (THAMES GROUP: LONDON CLAY FORMATION - B)	6.00-6.50	ES10		VOC 0ppm	
20/09/21	5.50		2.35				6.00-6.50	B11			
							6.50				
							6.50-6.95	U12			
20/09/21	6.95						6.50-6.73	ES13			
								7.00-7.45	U14	70 blows	100% Recovery
								7.50-7.95	UT15	45 blows	100% Recovery
							7.50 ... with occasional partings of light brown fine sand, white flecks and 1No pyrite nodule	7.50	D16		
								8.00		N20	2, 2 / 3, 5, 6, 6
								8.00	D17		
							8.00-8.45	D18			
							8.50-8.95	U19	55 blows	100% Recovery	
							9.00-9.45	UT20	73 blows	100% Recovery	
							9.00	D21			
							9.50		N20	2, 3 / 3, 5, 5, 7	
							9.50	D22			
							9.50-9.95	D23			
							10.00-10.45	U24	80 blows	100% Recovery	
							10.50-10.95	UT25	55 blows	100% Recovery	
							10.50	D26			
							11.00		N21	3, 3 / 5, 5, 5, 6	

Issue: FINAL

Logger: JKH/CS

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:14

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 15/09/21
Date Completed 29/09/21

Ground Level (mOD)
29.28

Co-Ordinates
E 511500.52 N 180144.85

Final Depth
50.45m

Client
HDCI Hayes London Limited

Method
Cable Percussion

Sheet
2 of 5

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
20/09/21 21/09/21	8.25 8.25	Dry Dry					11.00 11.00-11.45 11.50-11.95	D27 D28 U29	100 blows	100% Recovery	
							12.00-12.45 12.00	UT30 D31	100 blows	100% Recovery	
							12.50 12.50 12.50-12.95	D32 D33	N25	4, 4 / 5, 6, 8	
							13.00-13.45	U34	100 blows	100% Recovery	
							13.50-13.95 13.50	UT35 D36	100 blows	100% Recovery	
							14.00 14.00 14.00-14.45	D37 D38	N27	3, 5 / 5, 6, 8, 8	
							14.50-14.95	U39	100 blows	100% Recovery	
							15.00-15.45 15.00	UT40 D41	100 blows	100% Recovery	
							15.50 15.50 15.50-15.95	D42 D43	N26	3, 4 / 5, 5, 8, 8	
							16.00-16.45	U44	100 blows	100% Recovery	
							16.50-16.95 16.50	UT45 D46	100 blows	100% Recovery	
							17.00 17.00 17.00-17.45	D47 D48	N39	6, 6 / 7, 9, 11, 12	
							17.50-17.95	U49	100 blows	100% Recovery	
							18.00-18.45 18.00	UT50 D51	100 blows	100% Recovery	
							18.50 ... becoming silty with rare bioturbation and white flecks 18.50 18.50-18.95	D52 D53	N37	4, 4 / 7, 9, 10, 11	
							19.00-19.45	U54	100 blows	100% Recovery	
							19.50-19.95 19.50	UT55 D56	100 blows	100% Recovery	
							20.00 ... with 1No shell fragment (<10mm) 20.00 20.00-20.45	D57 D58	N41	4, 6 / 8, 9, 12, 12	
							20.50-20.95	U59	100 blows	100% Recovery	
							21.00-21.45 21.00	UT60 D61	100 blows	100% Recovery	
							21.50 21.50 21.50-21.95	D62 D63	N33	5, 6 / 7, 7, 9, 10	
							22.00-22.45	U64	100 blows	100% Recovery	

Issue: FINAL

Logger: JKH/CS

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:14

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 15/09/21
Date Completed 29/09/21

Ground Level (mOD)
29.28

Co-Ordinates
E 511500.52 N 180144.85

Final Depth
50.45m

Client

HDCI Hayes London Limited

Method

Cable Percussion

Sheet

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PROGRESS

STRATA

SAMPLES & TESTS

Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result	Field Records	Instrument Backfill
21/09/21	24.38	Dry					22.50-22.95	UT65	100 blows	100% Recovery	
22/09/21	24.38	Dry					22.50	D66			
							23.00		N34	4, 5 / 8, 8, 8, 10	
						23.00 - 23.40 ... with a band of claystone	23.00	D67			
						23.00 - 23.50 ... with claystone fragments	23.00-23.45	D68			
							23.50-23.95	U69	100 blows	100% Recovery	
							24.00-24.45	UT70	100 blows	100% Recovery	
							24.00	D71			
							24.50		N31	4, 6 / 6, 8, 8, 9	
							24.50	D72			
							24.50-24.95	D73			
							25.00-25.45	U74	100 blows	100% Recovery	
			3.78		25.50		25.50-25.95	UT75	100 blows	100% Recovery	
							25.50	D76			
						Very stiff, dark brown slightly sandy slightly micaceous silty CLAY with frequent white flecks, bioturbation and 1No pyrite nodule (<30mm). (THAMES GROUP: LONDON CLAY FORMATION - A3ii)	26.00		N37	5, 6 / 8, 9, 10, 10	
						26.00 ... becoming sandy with occasional pockets of light brown and dark grey silty fine sand (<50mm), white flecks and rare grey flecks	26.00	D77			
							26.00-26.45	D78			
							26.50-26.95	U79	100 blows	100% Recovery	
							27.00-27.45	UT80	100 blows	100% Recovery	
							27.00	D81			
						27.50 ... with rare bioturbation	27.50		N30	4, 4 / 5, 7, 8, 10	
							27.50	D82			
							27.50-27.95	D83			
							28.00-28.45	U84	100 blows	100% Recovery	
						28.50 ... with 1No pyrite nodule	28.50-28.95	UT85	110 blows	100% Recovery	
							28.50	D86			
						29.00 ... with 1No white shell fragment	29.00		N42	5, 7 / 8, 11, 11, 12	
							29.00	D87			
							29.00-29.45	D88			
							29.50-29.95	U89	110 blows	100% Recovery	
						30.00 ... with occasional bioturbation and 1No yellowish white shell fragment	30.00-30.45	UT90	110 blows	100% Recovery	
							30.00	D91			
						30.50 - 31.00 ... with a band of claystone	30.50		N50/285mm	6, 7 / 14, 16, 12, 8	
							30.50	D92			
							30.50-30.95	D93			
							31.00-31.45	U94	115 blows	100% Recovery	
							31.50-31.95	UT95	115 blows	100% Recovery	
							31.50	D96			
						32.00 ... becoming slightly sandy with occasional bioturbation and white flecks	32.00		N39	5, 5 / 6, 10, 11, 12	
							32.00	D97			
							32.00-32.45	D98			
							32.50-32.95	U99	110 blows	100% Recovery	
							33.00-33.45	UT100	110 blows	100% Recovery	

Issue: FINAL

Logger: JKH/CS

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:14

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 15/09/21
Date Completed 29/09/21

Ground Level (mOD)
29.28

Co-Ordinates
E 511500.52 N 180144.85

Final Depth
50.45m

Client
HDCI Hayes London Limited

Method
Cable Percussion

Sheet
4 of 5

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
23/09/21	32.00	Dry	-6.22		35.50	33.00 ... becoming sandy	33.00	D101		6, 7 / 9, 10, 11, 14	
24/09/21	32.00	Dry					33.50	D102	N44		
24/09/21	32.00	Dry					33.50-33.95	D103			
							34.00-34.45	U104	110 blows		
							34.50-34.95	UT105	110 blows		
							34.50	D106			
							35.00		N43		
							35.00	D107			
							35.00-35.45	D108			
							35.50-35.95	U109	120 blows		
			-10.72		(4.50)	Very stiff, dark greyish brown slightly sandy silty micaceous CLAY. (THAMES GROUP: LONDON CLAY FORMATION - A3i) 36.00 - 36.50 ... with a band of claystone	36.00-36.45	UT110	115 blows	0% Recovery	6, 9 / 9, 10, 11, 12
							36.00	D111			
							36.00-36.50	B112			
							36.50		N42		
							36.50-36.95	D113			
						37.00 - 37.30 ... with a band of claystone	37.00-37.30	B114			
							37.50-37.95	U115	110 blows		
							38.00-38.45	UT116	120 blows		
							38.00	D117			
							38.50		N42		
			-10.72		(7.50)	Very stiff, dark greyish brown slightly sandy slightly micaceous silty CLAY with occasional partings of light brown fine sand (<30mm) and bioturbation. (THAMES GROUP: LONDON CLAY FORMATION - A2)	40.00	D123	N50/295mm	6, 9 / 12, 13, 13, 12	
							40.00	D124			
							40.50-40.95	U125	110 blows		
							41.00		N46		
						41.00 ... with 1No pyrite nodule and 1No lignite fragment	41.00	D126			
							41.00-41.45	D127			
							41.50	D128			
						41.50 ... with occasional bioturbation and 2No pyrite nodules	42.00-42.45	U129	110 blows		
							42.50		N50/259mm		
						42.50 ... becoming sandy	42.50	D130			
			-10.72		(7.50)		42.50-42.95	D131		9, 9 / 15, 15, 15, 5	
							43.00	D132			
							43.50-43.95	UT133	115 blows		
			-10.72		(7.50)		43.90	D134		80% Recovery	
							44.00		N50/295mm		

Issue: FINAL

Logger: JKH/CS

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:14

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 15/09/21
Date Completed 29/09/21

Ground Level (mOD)
29.28

Co-Ordinates
E 511500.52 N 180144.85

Final Depth
50.45m

Client

HDCI Hayes London Limited

Method

Cable Percussion

Sheet

5 of 5

PROGRESS			STRATA			SAMPLES & TESTS				Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
24/09/21	32.00	Dry	-18.22		47.50		44.00-44.45	D135			
27/09/21	32.00	40.20					44.50	D136			
							45.00-45.95	U137	115 blows	95% Recovery	
							45.45		N50/290mm	6, 9 / 12, 13, 15, 10	
							45.45	D138			
							45.45-45.90	D139			
						46.00 ... with 1No pyrite nodule	46.00	D140			
							46.50-46.95	U141	120 blows	100% Recovery	
						47.00 ... with rare white shell fragments	47.00		N50/225mm	6, 11 / 14, 16, 20	
							47.00-47.45	D142			
							47.50-47.50	D143			
27/09/21	32.00	48.45			(1.70)	Grey slightly sandy SILT. (THAMES GROUP: HARWICH FORMATION: Swanscombe Member)	48.00-48.50	U144	95 blows	100% Recovery	
							48.50		N50/138mm	15, 10 / 25, 25	
						48.50 ... becoming brownish grey and slightly gravelly. Gravel is rounded fine black flint	48.50-49.00	B145			
							48.50-48.50	D146			
							49.20-49.50	B147			
						Very stiff, light grey mottled brown silty CLAY. (LAMBETH GROUP: READING FORMATION: Upper Mottled Beds)	49.50-50.00	U148	100 blows	100% Recovery	
					(1.25)		50.00		N50/260mm	5, 10 / 12, 14, 15, 9	
27/09/21	32.00	50.00	-21.17		50.45	50.00 ... becoming fissured grey mottled red	50.00-50.00	D149			
							50.00-50.45	D150			
						End of Borehole					

Issue: FINAL

Logger: JKH/CS

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:14

Project

L4 Colt DCS Data Centre

Job No 21/3600	Date Started 03/09/21 Date Completed 15/09/21	Ground Level (mOD) 28.54	Co-Ordinates E 511561.17 N 180129.27	Final Depth 48.50m
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Client	
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HDCI Hayes London Limited

BOREHOLE SUMMARY

Top (m)	Base (m)	Type	Date Started	Date Ended	Crew	Logged By	Barrel Type	Core Bit	Plant Used/ Method	SPT Hammer Reference
0.00	1.20	IP	03/09/2021	03/09/2021	ST	JKH			Hand Excavated	
1.20	48.50	CP	07/08/2021	15/09/2021	ST	JKH			Dando 175	AR779

WATER STRIKES

Strike at (m)	Rise to (m)	Time to Rise (min)	Casing Depth (m)	Sealed (m)	From (m)	To (m)
46.20	46.20	20	26.00			

WATER ADDED

From (m)	To (m)

CHISELLING / SLOW DRILLING

From (m)	To (m)	Duration (hr)	Remarks
16.35	17.00	00:30	Claystone
19.00	19.50	00:30	Claystone
35.90	36.00	00:10	Claystone

HOLE

PILE		CASING	
Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)
0.00	250	0.00	200
5.00	250	4.50	200
26.00	200	26.00	150
48.50	150		

CASING

PILE		CASING	
Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)
0.00	250	0.00	200
5.00	250	4.50	200
26.00	200	26.00	150
48.50	150		

DYNAMIC SAMPLING /ROTARY RECOVERY

From (m)	To (m)	Duration (hr)	Recovery (%)

ROTARY FLUSH DETAIL

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

INSTALLATION DETAILS

INSTALLATION DETAILS					
Type	Diameter (mm)	Depth of Installation (m)	Top of Response Zone (m)	Bottom of Response Zone (m)	Date of Installation
GMP VWP	50	1.36 48.50	0.50	1.20	15/09/2021 15/09/2021

BACKFILL DETAILS

Top (m)	Bottom (m)	Material	Backfill Date	Remarks
0.00	0.20	Concrete	15/09/2021	Flush Cover
0.20	0.50	Bentonite Pellets		
0.50	1.20	Pea Shingle		
1.20	1.30	Bentonite Pellets		
1.30	48.50	Cement/Bentonite Grout		

Project

L4 Colt DCS Data Centre

Job No	Date Started	03/09/21	Ground Level (mOD)	Co-Ordinates	Final Depth
21/3600	Date Completed	15/09/21	28.54	E 511561.17 N 180129.27	48.50m

Client

HDCI Hayes London Limited

PROGRESS					SPT DETAILS					
Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)	Remarks	Type	Depth (m)	N Value	Blow Count / 75mm	Casing Depth (m)	Water Depth (m)
03/09/21	0.00		Dry		S	2.50	N11	2, 2 / 3, 2, 3, 3	1.50	Dry
03/09/21	1.20		Dry		S	4.50	N12	1, 2 / 3, 2, 3, 4	3.00	Dry
07/09/21	1.20		Dry		S	6.00	N12	1, 2 / 2, 3, 3, 4	4.50	Dry
07/09/21	4.50	3.10	Dry		S	7.50	N18	2, 2 / 3, 4, 5, 6	4.50	Dry
08/09/21	4.50	3.10	Dry		S	9.00	N19	2, 3 / 4, 4, 5, 6	4.50	Dry
08/09/21	15.50	4.50	Dry		S	10.50	N19	2, 3 / 4, 4, 5, 6	4.50	Dry
09/09/21	15.50	4.50	Dry		S	12.00	N26	3, 4 / 5, 7, 7, 7	4.50	Dry
09/09/21	25.50	4.50	Dry		S	13.50	N19	2, 2 / 3, 4, 5, 7	4.50	Dry
10/09/21	25.50	4.50	25.35	... see Remark 1	S	15.00	N27	3, 3 / 4, 5, 9, 9	4.50	Dry
10/09/21	26.00	26.00	Dry		S	16.35	N26	13, 9 / 8, 6, 6, 6	4.50	Dry
10/09/21	30.00	26.00	Dry		S	18.00	N35	3, 3 / 7, 8, 8, 12	4.50	Dry
13/09/21	30.00	26.00	27.30	... see Remark 2	S	19.50	N31	4, 4 / 6, 7, 9, 9	4.50	Dry
13/09/21	31.00	26.00	Dry		S	21.00	N32	5, 5 / 6, 8, 8, 10	4.50	Dry
13/09/21	39.95	26.00	Dry		S	22.50	N30	3, 3 / 6, 7, 8, 9	4.50	Dry
14/09/21	39.95	26.00	38.40		S	24.00	N39	4, 7 / 8, 10, 10, 11	4.50	Dry
14/09/21	40.00	26.00	Dry		S	25.50	N47	6, 7 / 9, 11, 12, 15	4.50	Dry
14/09/21	45.00	26.00	Dry		S	27.00	N40	3, 4 / 7, 9, 11, 13	26.00	Dry
15/09/21	46.20	26.00	46.20	... Water Strike	S	28.50	N43/295	7, 9 / 9, 12, 12, 10	26.00	Dry
15/09/21	46.80	26.00	46.60		S	30.00	N40	5, 6 / 8, 10, 11, 11	26.00	Dry
15/09/21	47.50	26.00	47.10		S	31.50	N36	4, 5 / 6, 8, 10, 12	26.00	Dry
15/09/21	48.00	26.00	48.30		S	33.00	N45	4, 6 / 9, 12, 12, 12	26.00	Dry
15/09/21	48.50	26.00	48.40		S	34.50	N44	4, 7 / 8, 12, 12, 12	26.00	Dry
					S	36.00	N55/255	25 / 25, 10, 15, 5	26.00	Dry
					S	37.50	N50/299	5, 8 / 10, 12, 13, 15	26.00	Dry
					S	39.00	N46	4, 7 / 9, 12, 13, 12	26.00	Dry
					S	40.50	N53	7, 7 / 11, 17, 12, 13	26.00	Dry
					S	42.00	N49	4, 6 / 10, 12, 14, 13	26.00	Dry
					S	43.50	N53	6, 8 / 13, 13, 13, 14	26.00	Dry
					S	45.00	N47/160	6, 12 / 13, 17, 17	26.00	Dry
					S	46.50	N50/230	5, 9 / 13, 17, 17, 3	46.50	46.50
					C	47.50	N50/81	15, 10 / 27, 23	46.50	46.60

GENERAL REMARKS

- Water entering the borehole between 09/09/2021 and 10/09/2021.
- Water entering the borehole between 10/09/2021 and 13/09/2021.
- Water strike encountered at 46.20m depth, with no rise.
- FHT test carried out in the borehole.

KEY**SAMPLES**

ES	- Environmental Sample (Tub, Vial, Jar)	AZCL: Assumed Zone of Core Loss
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

GMP	- Gas monitoring point	IP	- Inspection Pit, TP-Trial Pit TT - Trial Trench
GWMP	- Groundwater monitoring point	CP	- Cable Percussion, RC-Rotary Coring, R/S-Rotary/Sonic
SPIE	- Standpipe piezometer	DS	- Dynamic Sampling, DS/R-Dynamic Sampling / Rotary
EPIE	- Electronic Piezometer	DC	- Diamond Coring, CPR-Cable Percussion Rotary follow on
SP	- Standpipe		

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

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 03/09/21
Date Completed 15/09/21

Ground Level (mOD)
28.54

Co-Ordinates
E 511561.17 N 180129.27

Final Depth
48.50m

Client
HDCI Hayes London Limited

Method
Cable Percussion

Sheet
1 of 5

PROGRESS			STRATA			SAMPLES & TESTS				Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
03/09/21		Dry	28.24		0.30	Asphalt. (MADE GROUND)	0.30			VOC 0.1ppm	
			28.04		0.50	Brown and grey very gravelly silty fine to medium SAND. Gravel comprises subangular to subrounded fine to coarse flint, brick and concrete fragments. (MADE GROUND)	0.30	ES1			
			27.84		0.70		0.60	B2		VOC 0.1ppm	
					(0.50)		0.60	ES3			
					1.20		1.00	B4		VOC 0ppm	
03/09/21		Dry	27.34		1.20	Brown fine to medium SAND and GRAVEL with high brick cobble content. Gravel comprises angular to subrounded fine to coarse flint, brick and concrete fragments. (MADE GROUND)	1.00	ES5			
07/09/21		Dry			(0.80)		1.00	B6		VOC 0.1ppm	
					2.00		1.20	ES7			
			26.54		2.00	Grey very sandy GRAVEL. Gravel comprises angular to subangular fine to coarse flint and concrete fragments. Sand is fine to coarse. (MADE GROUND)	1.20-1.50	B8			
							1.50-2.00	U9	20 blows	100% Recovery	
							2.00-2.45	UT10	30 blows	100% Recovery	
							2.00	D11			
							2.50		N11	2, 2 / 3, 2, 3, 3	
							2.50			VOC 0ppm	
							2.50	ES12			
							2.50-2.95	D13			
							2.50	D14			
							2.50-3.00	B15			
							3.00				
							3.00-3.45	U16			
							3.00	ES17			
							3.00-3.50	B18			
							3.50-3.95	U19	50 blows	100% Recovery	
							4.00-4.45	UT20	50 blows	100% Recovery	
							4.00	D21			
							4.50		N12	1, 2 / 3, 2, 3, 4	
07/09/21	3.10	Dry				2.50 ... becoming brown mottled orangish brown with frequent white siltstone nodules (<15mm) and rare off-white shell fragments (<10mm)	4.50-4.95	D22			
08/09/21	3.10	Dry				4.00 ... becoming brown mottled dark bluish grey with rare rootlets and off-white shell fragments (<5mm)	4.50	D23			
						4.50 ... with a pocket of black organic material (<35mm)	5.00-5.45	U24	60 blows	80% Recovery	
			23.09		5.45		5.45	D25			
						Stiff, greyish brown slightly micaceous silty CLAY with frequent pockets of dark grey silty fine sand (<15mm), lenses of white silt (<5mm), white flecks, occasional bioturbation and 1No pyrite nodule (<15mm). (THAMES GROUP: LONDON CLAY FORMATION - B)	5.50-5.95	UT26	50 blows	100% Recovery	
						6.00 ... with frequent bioturbation and occasional off-white shell fragments (<5mm)	6.00		N12	1, 2 / 2, 3, 3, 4	
							6.00-6.45	D27			
							6.00	D28			
							6.50-6.95	U29	52 blows	100% Recovery	
						7.00 ... with rare pockets of light brown silt (<10mm) and 1No light brown claystone fragment (<15mm)	7.00-7.45	UT30	55 blows	100% Recovery	
							7.00	D31			
						7.50 ... becoming very stiff with lenses of white silt (<5mm), rare white flecks and off-white shell fragments (<5mm)	7.50		N18	2, 2 / 3, 4, 5, 6	
							7.50-7.95	D32			
							7.50	D33			
							8.00-8.45	U34	60 blows	100% Recovery	
						8.50 ... becoming brownish grey with occasional off-white shell fragments (<15mm) and 1No pyrite nodule (<5mm)	8.50-8.95	UT35	50 blows	100% Recovery	
							8.50	D36			
						9.00 ... with rare pyrite nodules (<10mm)	9.00		N19	2, 3 / 4, 4, 5, 6	
							9.00-9.45	D37			
							9.00	D38			
							9.50-9.95	U39	60 blows	100% Recovery	
						10.00 ... with with rare pockets of dark grey silty fine sand (<20mm), frequent white flecks, bioturbation, rare lenses of white silt (<5mm) and off-white shell fragments	10.00-10.45	UT40	70 blows	100% Recovery	
							10.00	D41			
						10.50 ... with a parting of dark grey and light brown silty fine sand	10.50		N19	2, 3 / 4, 4, 5, 6	
							10.50-10.95	D42			
							10.50	D43			
							11.00-11.45	U44	57 blows	100% Recovery	

Issue: FINAL

Logger: JKH

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:22

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 03/09/21
Date Completed 15/09/21

Ground Level (mOD)
28.54

Co-Ordinates
E 511561.17 N 180129.27

Final Depth
48.50m

Client
HDCI Hayes London Limited

Method
Cable Percussion

Sheet
2 of 5

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
08/09/21 09/09/21	4.50 4.50	Dry Dry			(20.05)	11.50 ... with frequent pockets and lenses of light brown fine sand (<5mm)	11.50-11.95 11.50	UT45 D46	55 blows	100% Recovery	
						12.00 ... with occasional pockets of dark grey silty fine sand (<15mm) and off-white shell fragments	12.00 12.00-12.45 12.00	D47 D48	N26	3, 4 / 5, 7, 7, 7	
						13.00 ... with rare off-white shell fragments (<5mm)	12.50-12.95 13.00-13.45 13.00	U49 UT50 D51	45 blows	100% Recovery	
						13.50 ... with occasional partings of dark grey silty fine sand	13.50 13.50-13.95 13.50	N19 D52 D53	60 blows	100% Recovery	
						14.00-14.45	14.00-14.45	U54	60 blows	100% Recovery	
						14.50-14.95	14.50-14.95 14.50	UT55 D56	70 blows	100% Recovery	
						15.00 ... with occasional pockets of dark grey silt (<10mm)	15.00 15.00-15.45 15.00	D57 D58	N27	3, 3 / 4, 5, 9, 9	
						15.50-15.95	15.50-15.95	U59	70 blows	35% Recovery	
						16.00-16.45	16.00-16.45	D60 UT61	80 blows	35% Recovery	
						16.35 - 17.00 ... with band of claystone	16.35 16.35-16.80 16.35	D62 D63	N26	13, 9 / 8, 6, 6, 6	
						17.00-17.45	17.00-17.45	U64	60 blows	100% Recovery	
						17.50-17.95	17.50-17.95 17.50	UT65 D66	70 blows	100% Recovery	
						18.00	18.00-18.45 18.00	D67 D68	N35	3, 3 / 7, 8, 8, 12	
						18.50-18.95	18.50-18.95	U69	70 blows	85% Recovery	
						18.90 ... with rare pockets of light brown fine sand (<5mm) and 1No pyrite nodule (<5mm)	18.90 19.00-19.45 19.00-19.50	D70 UT71 B72		0% Recovery	
						19.00 - 19.50 ... with band of claystone	19.50 19.50-19.95	D73	N31	4, 4 / 6, 7, 9, 9	
						20.00-20.45	20.00-20.45	U74	100 blows	90% Recovery	
						20.50 ... with rare lenses of white silt (<5mm) and pyrite nodules (<20mm)	20.40 20.50-20.95	D75 UT76	81 blows	100% Recovery	
						21.00	21.00-21.45 21.00	D77 D78	N32	5, 5 / 6, 8, 8, 10	
						21.50-21.95	21.50-21.95	U79	100 blows	100% Recovery	
						22.00-22.45	22.00-22.45	UT80	95 blows	100% Recovery	

Issue: FINAL

Logger: JKH

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:22

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 03/09/21
Date Completed 15/09/21

Ground Level (mOD)
28.54

Co-Ordinates
E 511561.17 N 180129.27

Final Depth
48.50m

Client
HDCI Hayes London Limited

Method
Cable Percussion

Sheet
3 of 5

PROGRESS			STRATA			SAMPLES & TESTS				Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
09/09/21	4.50	Dry	3.04		25.50	22.50 ... with 1No pyrite nodule (<10mm)	22.00 22.50 22.50-22.95 22.50	D81 D82 D83	N30	3, 3 / 6, 7, 8, 9	
10/09/21	4.50	25.35				23.00-23.45	23.00-23.45	U84	100 blows	100% Recovery	
						23.50 ... with occasional pockets of dark grey silty fine sand (<20mm)	23.50-23.95 23.50	UT85 D86	90 blows	100% Recovery	
						24.00 ... with occasional pockets of light brown fine sand (<10mm), frequent off-white shell fragments (<10mm) and occasional pyrite nodules (<15mm)	24.00 24.00-24.45 24.00	D87 D88	N39	4, 7 / 8, 10, 10, 11	
						24.50-24.95	24.50-24.95	U89	100 blows	100% Recovery	
						25.00 ... with occasional pockets of light brown silt (<15mm), pyrite nodules (<15mm) and rare off-white shell fragments (<10mm)	25.00-25.45 25.00	UT90 D91	95 blows	100% Recovery	
10/09/21	26.00	Dry				25.50 ... with frequent partings and pockets of light brown silty fine sand (<20mm) and rare off-white shell fragments (<5mm). (THAMES GROUP: LONDON CLAY FORMATION - A3ii)	25.50-25.95 25.50	D92 D93	N47	6, 7 / 9, 11, 12, 15	
						26.35 ... with frequent bioturbation and occasional white flecks	26.00-26.45 26.35 26.50-26.95	U94 D95 UT96	100 blows 100 blows	60% Recovery 100% Recovery	
						27.00 ... with frequent partings of light grey silt, occasional pockets of light brown fine sand (<35mm) and 1No pyrite nodule (<10mm)	27.00 27.00-27.45 27.00	D97 D98	N40	3, 4 / 7, 9, 11, 13	
						27.50-27.95	27.50-27.95	U99	100 blows	100% Recovery	
					(4.50)	28.00 ... with 1No lignite fragment (<65mm)	28.00-28.45 28.00	UT100 D101	100 blows	100% Recovery	
						28.50 ... with occasional pockets of dark grey silt (<20mm)	28.50 28.50-28.95 28.50	D102 D103	N43/295mm	7, 9 / 9, 12, 12, 10	
						28.50 - 28.95 ... with frequent extremely weak to weak brown claystone fragments (<35mm)	29.00-29.45	U104	100 blows	100% Recovery	
							29.50-29.95 29.50	UT105 D106	100 blows	100% Recovery	
10/09/21	26.00	Dry	-1.46		30.00	Very stiff, brownish grey slightly micaceous CLAY. (THAMES GROUP: LONDON CLAY FORMATION - A3i)	30.00 30.00 30.00-30.45 30.50-30.95	D107 D108 U109	N40	5, 6 / 8, 10, 11, 11	
13/09/21	26.00	Dry				31.00 ... with a pocket of extremely weak light brownish grey claystone fragments (<50mm) and rare pockets of light brown silty fine sand (<10mm)	31.00 31.00-31.45 31.50 31.50-31.95 31.50-31.95 32.00-32.45	D110 UT111 D112 D113 U114	110 blows	100% Recovery	
							32.50 32.50-32.95	D115 UT116	100 blows	100% Recovery	
							33.00	N45	4, 6 / 9, 12, 12, 12		

Issue: FINAL

Logger: JKH

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:22

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 03/09/21
Date Completed 15/09/21

Ground Level (mOD)
28.54

Co-Ordinates
E 511561.17 N 180129.27

Final Depth
48.50m

Client
HDCI Hayes London Limited

Method
Cable Percussion

Sheet
4 of 5

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
							33.00 33.00-33.45 33.50-33.95	D117 D118 U119	100 blows	100% Recovery	
					(8.50)	34.00 ... with rare pockets of dark grey fine sand (<10mm)	34.00 34.00-34.45	D120 UT121	110 blows	100% Recovery	
						34.50 - 34.95 ... with occasional pockets of light brown silt (<30mm)	34.50 34.50-34.95	D122 D123	N44	4, 7 / 8, 12, 12, 12	
							35.00-35.45	U124	110 blows	100% Recovery	
							35.50 35.50-35.95	D125 UT126	110 blows	90% Recovery	
						35.90 - 36.00 ... with band of claystone	35.90 36.00 36.00-36.45	D127 D128	N55/255mm	25 / 25, 10, 15, 5	
							36.50-36.95	U129	100 blows	100% Recovery	
						37.00 ... with rare pockets of light brown fine sand (<10mm) and rare pyritised lignite fragments (<5mm)	37.00 37.00-37.45	D130 UT131	100 blows	90% Recovery	
							37.45 37.50 37.50-37.95	D132 D133	N50/299mm	5, 8 / 10, 12, 13, 15	
							38.00-38.45	U134	115 blows	100% Recovery	
			-9.96		38.50	Very stiff, brownish grey slightly micaceous silty CLAY with frequent pockets of light grey (<5mm) and light brown silty fine sand (<5mm), rare off-white shell fragments (<5mm) and bioturbation. (THAMES GROUP: LONDON CLAY FORMATION - A2)	38.50 38.50-38.95	D135 UT136	115 blows	100% Recovery	
13/09/21	26.00	Dry				39.00 ... becoming grey with frequent partings of light grey fine sand, lignite fragments (<70mm), foraminifera and rare bioturbation	39.00 39.00-39.45	D137 D138	N46	4, 7 / 9, 12, 13, 12	
14/09/21	26.00	38.40				39.95 ... with frequent pockets of light brown fine sand (<25mm), dark grey silt (<15mm), bioturbation and foraminifera	39.95-39.95	U139	115 blows	90% Recovery	
14/09/21	26.00	Dry				40.50 ... becoming slightly sandy with frequent pockets of dark grey silty fine sand (<30mm) and rare pockets of light brown fine sand (<5mm)	39.85 40.00-40.45	D140 UT141	116 blows	100% Recovery	
							40.50 40.50-40.95	D142 D143	N53	7, 7 / 11, 17, 12, 13	
						41.50 ... with frequent pockets of light brown fine sand (<20mm) and bioturbation	41.00-41.45	U144	116 blows	100% Recovery	
							41.50 41.50-41.95	D145 UT146	116 blows	100% Recovery	
						42.00 ... with occasional pockets of light brown fine sand (<10mm), rare pockets of dark grey fine sand (<5mm), frequent white flecks, rare pyrite nodules and foraminifera	42.00 42.00-42.45	D147 D148	N49	4, 6 / 10, 12, 14, 13	
					(8.00)		42.50-42.95	U149	110 blows	100% Recovery	
						43.00 ... with frequent pockets of light brown (<20mm) and dark grey fine sand (<20mm) and foraminifera	43.00 43.00-43.45	D150 UT151	110 blows	100% Recovery	
						43.50 ... with occasional pockets of light grey fine sand (<40mm), rare lignite fragments (<10mm) and 1No pyrite nodule (<50mm)	43.50 43.50-43.95	D152 D153	N53	6, 8 / 13, 13, 13, 14	
							44.00-44.45	U154	116 blows	100% Recovery	

Issue: FINAL

Logger: JKH

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:22

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 03/09/21
Date Completed 15/09/21

Ground Level (mOD)
28.54

Co-Ordinates
E 511561.17 N 180129.27

Final Depth
48.50m

Client
HDCI Hayes London Limited

Method
Cable Percussion

Sheet
5 of 5

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
14/09/21	26.00	Dry				44.50 ... with rare pockets of light grey fine sand (<5mm) and occasional lignite fragments (<10mm)	44.50 44.50-44.95	D155 UT156	120 blows	100% Recovery	
						45.00 ... with frequent pockets of light brown fine sand (<60mm), rare lenses of white silt (<5mm), off-white shell fragments (<10mm) and foraminifera	45.00 45.00-45.95	D157 D158	N47/160mm	6, 12 / 13, 17, 17	
							45.50-45.90	U159	120 blows	100% Recovery	
15/09/21	26.00	46.20					46.00 46.00-46.45	D160 UT161	120 blows	100% Recovery	
			-17.96		46.50		46.50 46.50-46.95	D162 D163	N50/230mm	5, 9 / 13, 17, 17, 3	
15/09/21	26.00	46.60				Very stiff, grey slightly micaceous silty CLAY with frequent pockets of dark grey silty fine sand (<25mm), off-white shell fragments (<35mm) and occasional bioturbation. (THAMES GROUP: HARWICH FORMATION: Swanscombe Member)	46.80-47.00 47.00-47.50	B164 B165			
15/09/21	26.00	47.10			(1.50)	46.80 ... becoming slightly gravelly. Gravel is subrounded to well rounded fine to coarse black flint	47.50 47.50-47.95	U167	N50/81mm 120 blows	15, 10 / 27, 23 100% Recovery	
15/09/21	26.00	48.30	-19.46		48.00	47.00 ... with rare off-white shell fragments (<10mm)	48.00 48.00-48.50	D168 UT169			
15/09/21	26.00	48.40	-19.96		(0.50) 48.50	Very stiff, grey mottled brownish grey slightly micaceous silty CLAY. (LAMBETH GROUP: READING FORMATION: Upper Mottled Beds)	48.50	D170			
						48.50 ... becoming orangish brown mottled reddish brown End of Borehole					

Issue: FINAL

Logger: JKH

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:22

Project

L4 Colt DCS Data Centre

Job No 21/3600	Date Started 23/08/21 Date Completed 03/09/21	Ground Level (mOD) 29.70	Co-Ordinates E 511447.04 N 180152.91	Final Depth 47.50m
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Client

HDCI Hayes London Limited

BOREHOLE SUMMARY

Top (m)	Base (m)	Type	Date Started	Date Ended	Crew	Logged By	Barrel Type	Core Bit	Plant Used/ Method	SPT Hammer Reference
0.00	1.20	IP	23/08/2021	23/08/2021	DJ	TP/JKH			Hand Excavated	
1.20	47.50	CP	25/08/2021	01/09/2021	DJ	JKH			Dando 2000	AR3552

WATER STRIKES

WATER ADDED

CHISELLING / SLOW DRILLING

Strike at (m)	Rise to (m)	Time to Rise (min)	Casing Depth (m)	Sealed (m)	From (m)	To (m)	From (m)	To (m)	Duration (hr)	Remarks
9.50	9.50	20	7.50		1.70	9.50	47.20	47.50	02:00	Slow Drilling

HOLE

CASING

Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)
0.00	250	0.00	250
11.00	250	7.50	250
46.50	200	11.50	200
47.50	150	46.50	150

DYNAMIC SAMPLING /ROTARY RECOVERY

From (m)	To (m)	Duration (hr)	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
GMP	50	1.70	1.20	1.70	03/09/2021
GWMP	50	6.70	3.70	6.70	03/09/2021
VWP		45.00			01/09/2021

BACKFILL DETAILS

Top (m)	Bottom (m)	Material	Backfill Date	Remarks
0.00	0.20	Concrete	03/09/2021	Flush Cover
0.20	1.20	Bentonite Pellets		
1.20	1.70	Pea Shingle		
1.70	3.70	Bentonite Pellets		
3.70	6.70	Pea Shingle		
6.70	9.00	Bentonite Pellets	01/09/2021	
9.00	47.50	Cement/Bentonite Grout		

Project

L4 Colt DCS Data Centre

Job No

21/3600

Date Started

23/08/21

Date Completed

03/09/21

Ground Level (mOD)

29.70

Co-Ordinates

E 511447.04 N 180152.91

Final Depth

47.50m

Client

HDCI Hayes London Limited

PROGRESS

SPT DETAILS

Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)	Remarks	Type	Depth (m)	N Value	Blow Count / 75mm	Casing Depth (m)	Water Depth (m)
23/08/21	0.00		Dry		C	1.20	N100/265	13, 12 / 20, 25, 30, 25		Dry
23/08/21	1.20		Dry		C	2.50	N17	3, 2 / 2, 3, 5, 7	2.00	1.70
25/08/21	1.20		Dry		C	4.00	N13	2, 2 / 2, 2, 3, 6	4.00	3.00
25/08/21	1.70	1.70	Wet	... Water Added	C	5.50	N19	2, 3 / 4, 4, 6, 5	5.50	2.70
25/08/21	2.50	2.50	1.70		S	8.00	N21	2, 2 / 3, 5, 6, 7	7.50	6.60
25/08/21	4.00	4.00	3.00		S	9.50	N23	2, 3 / 4, 6, 6, 7	7.50	Wet
25/08/21	5.50	5.50	2.70		S	11.00	N28	3, 4 / 6, 6, 8, 8	7.50	Dry
25/08/21	6.70	6.70	6.60		S	12.40	N30	2, 4 / 6, 7, 8, 9	11.50	Dry
25/08/21	9.50	7.50	9.50	... Water Strike	S	14.00	N32	3, 3 / 6, 7, 8, 11	11.50	Dry
25/08/21	10.00	7.50	Dry		S	15.50	N31	3, 4 / 6, 7, 8, 10	11.50	Dry
25/08/21	11.00	11.00	Dry		S	17.00	N37	3, 5 / 7, 9, 10, 11	11.50	Dry
26/08/21	11.00	11.00	10.80	... see Remark 2	S	18.50	N100/170	3, 4 / 7, 70, 23	11.50	Dry
26/08/21	11.50	11.50	Dry		S	20.00	N42	4, 5 / 8, 10, 10, 14	11.50	Dry
26/08/21	26.40	11.50	Dry		S	21.50	N41	5, 6 / 9, 10, 10, 12	11.50	Dry
27/08/21	26.40	11.50	Dry		S	23.40	N38	4, 4 / 7, 9, 11, 11	11.50	Dry
27/08/21	27.00	11.50	Dry		S	25.00	N67	4, 6 / 7, 9, 10, 41	11.50	Dry
27/08/21	32.40	11.50	Dry		S	26.40	N39	5, 8 / 8, 10, 10, 11	11.50	Dry
31/08/21	32.40	11.50	30.50	... see Remark 3	S	27.80	N40	4, 5 / 8, 9, 10, 13	11.50	Dry
31/08/21	33.00	11.50	32.50		S	29.50	N41	4, 6 / 9, 9, 11, 12	11.50	Dry
31/08/21	33.50	11.50	Dry		S	30.90	N46	4, 6 / 8, 10, 14, 14	11.50	Dry
31/08/21	44.90	11.50	Dry		S	32.40	N49	5, 8 / 9, 10, 14, 16	11.50	Dry
01/09/21	44.90	11.50	43.50	... see Remark 4	S	34.40	N51	3, 9 / 11, 11, 13, 16	11.50	Dry
01/09/21	47.50	46.50			S	36.00	N54	5, 9 / 11, 13, 15, 15	11.50	Dry
					S	37.70	N45	4, 9 / 10, 10, 11, 14	11.50	Dry
					S	39.40	N58	6, 8 / 12, 14, 16, 16	11.50	Dry
					S	40.50	N62	6, 8 / 13, 15, 17, 17	11.50	Dry
					S	41.90	N61	7, 10 / 11, 16, 17, 17	11.50	Dry
					S	43.50	N51	5, 8 / 10, 12, 12, 17	11.50	Dry
					S	44.90	N66	6, 9 / 14, 16, 17, 19	11.50	Dry
					S	46.50	N78	7, 11 / 15, 19, 20, 24	11.50	Dry
					S	47.50	N116/85	5, 9 / 16, 100	11.50	Dry

GENERAL REMARKS

1. Water seepage encountered at 9.50m depth, with no rise.
2. Water entering the borehole between 25/08/2021 and 26/08/2021.
3. Water entering the borehole between 27/08/2021 and 31/08/2021.
4. Water entering the borehole between 31/08/2021 and 01/09/2021.

KEY

SAMPLES

ES - Environmental Sample (Tub, Vial, Jar) AZCL: Assumed Zone of Core Loss
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

GMP - Gas monitoring point
GWMP - Groundwater monitoring point
SPIE - Standpipe piezometer
EPIE - Electronic Piezometer
SP - Standpipe

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, CPR-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

Issue: FINAL

CHD: AN

APRV: OS

Log Print Date & Time:

07/02/2022 18:14

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 23/08/21
Date Completed 03/09/21

Ground Level (mOD)
29.70

Co-Ordinates
E 511447.04 N 180152.91

Final Depth
47.50m

Client

HDCI Hayes London Limited

Method

Cable Percussion

Sheet

1 of 5

PROGRESS			STRATA			SAMPLES & TESTS				Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
23/08/21		Dry	29.65 29.60 29.35		0.05 0.10 0.35	Asphalt. (MADE GROUND) Yellow sandy silty GRAVEL. Gravel comprises angular fine coarse mixed lithologies. Sand is fine to coarse. (MADE GROUND) Soft, grey gravelly sandy CLAY. Gravel comprises angular fine to coarse flint and glass fragments. Sand is fine to coarse. (MADE GROUND) Medium dense, yellowish brown silty fine to coarse SAND and angular to subangular fine to coarse flint GRAVEL. (LYNCH HILL GRAVEL MEMBER) 1.20 ... becoming very dense	0.20 0.20 0.20-0.30 0.50 0.50 0.50-0.80 0.90-1.20 1.20 1.20 1.30 1.30 1.50 1.70-2.10	ES1 B2 ES3 B4 B5 B6 ES7 B9	N100/265mm	VOC 0ppm VOC 0ppm 13, 12 / 20, 25, 30, 25 VOC 1ppm	
23/08/21 25/08/21		Dry Dry									
25/08/21	1.70	Wet									
25/08/21	2.50	1.70									
25/08/21	4.00	3.00									
25/08/21	5.50	2.70									
25/08/21	6.70	6.60	23.20 22.90		6.50 6.80	Very stiff, brown mottled orangish brown and dark grey slightly gravelly slightly micaceous silty CLAY. Gravel is angular to subangular fine to coarse flint. (THAMES GROUP: WEATHERED LONDON CLAY) Very stiff, brownish grey slightly micaceous silty CLAY with frequent white flecks and bioturbation. (THAMES GROUP: LONDON CLAY FORMATION - B) 7.95 ... with rare lenses of white silt (<5mm) and off-white shell fragments (<5mm) 8.90 ... with rare pockets of light brown fine sand (<5mm) and occasional white flecks 9.40 ... with frequent off-white shell fragments (<5mm)	6.50-6.70 6.70 6.70 6.70 7.00-7.45 7.45 7.50-7.95 7.95 8.00 8.00-8.45 8.50-8.90 8.90 9.00-9.40 9.40 9.50 9.50-9.95	B17 ES18 U19 U20 D21 UT22 D23 D24 U25 D26 UT27 D28 D29	45 blows 50 blows N21 60 blows 65 blows N23	VOC 0.6ppm 100% Recovery 100% Recovery 2, 2 / 3, 5, 6, 7 89% Recovery 89% Recovery 2, 3 / 4, 6, 6, 7	
25/08/21	7.50	9.50									
25/08/21	7.50	Dry									
25/08/21	11.00	Dry									

Issue: FINAL

Logger: TP/JKH

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:15

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 23/08/21
Date Completed 03/09/21

Ground Level (mOD)
29.70

Co-Ordinates
E 511447.04 N 180152.91

Final Depth
47.50m

Client
HDCI Hayes London Limited

Method
Cable Percussion

Sheet
2 of 5

PROGRESS			STRATA				SAMPLES & TESTS				Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result			
26/08/21	11.00	10.80				10.95 ... with occasional pockets of dark grey silt (<5mm)	11.00 11.00-11.45 11.50-11.95	D34 U35	N28 70 blows	3, 4 / 6, 8, 8 78% Recovery		
26/08/21	11.50	Dry				11.85 ... with 1No pyrite nodule (<3mm)	11.85 11.90-12.35	D36 UT37	75 blows	100% Recovery		
							12.35 12.40 12.40-12.85	D38 D39	N30	2, 4 / 6, 7, 8, 9		
							13.00-13.45	U40	75 blows	89% Recovery		
						13.40 ... with rare pockets of light grey fine sand (<5mm) and occasional lenses of white silt (<5mm)	13.40 13.50-13.95	D41 UT42	75 blows	100% Recovery		
							13.95 14.00 14.00-14.45	D43 D44	N32	3, 3 / 6, 7, 8, 11		
							14.50-14.95	U45	75 blows	100% Recovery		
						14.95 ... becoming slightly sandy with occasional partings of dark grey and light brown silty fine sand	14.95 15.00-15.45	D46 UT47	75 blows	100% Recovery		
							15.45 15.50 15.50-15.95	D48 D49	N31	3, 4 / 6, 7, 8, 10		
							16.00-16.45	U50	75 blows	89% Recovery		
						16.40 ... with rare partings of dark grey silty fine sand and occasional off-white shell fragments (<5mm)	16.40 16.50-16.95	D52 UT53	75 blows	89% Recovery		
							16.90 17.00 17.00-17.45	D54 D55	N37	3, 5 / 7, 9, 10, 11		
							17.50-17.95	U56	75 blows	89% Recovery		
							17.90 18.00-18.45	D57 UT58	75 blows	89% Recovery		
							18.40 18.50 18.50-18.95	D59 D60	N100/170mm	3, 4 / 7, 20, 23		
						18.70 - 19.00 ... with a band of claystone	18.70-19.00	B61				
							19.10-19.55	U61A	85 blows	89% Recovery		
						19.50 ... with rare pockets of dark grey silt (<20mm)	19.50 19.60-20.05	D62 UT63	85 blows	78% Recovery		
							19.95 20.00 20.00-20.45	D64 D65	N42	4, 5 / 8, 10, 10, 14		
							20.50-20.95	U66	90 blows	100% Recovery		
						20.95 ... with rare off-white shell fragments (<5mm)	20.95 21.00-21.45	D67 UT68	85 blows	89% Recovery		
						21.40 ... with 1No pyrite nodule (<10mm)	21.40 21.50 21.50-21.95	D69 D70	N41	5, 6 / 9, 10, 10, 12		
							22.00-22.40	B71	80 blows	0% Recovery		

Issue: FINAL

Logger: TP/JKH

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:15

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 23/08/21
Date Completed 03/09/21

Ground Level (mOD)
29.70

Co-Ordinates
E 511447.04 N 180152.91

Final Depth
47.50m

Client

HDCI Hayes London Limited

Method

Cable Percussion

Sheet

3 of 5

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 - 22.40 ... with band of claystone	22.50-22.95	U72	90 blows	100% Recovery	
							22.95	D73			
							23.00-23.45	UT74			
							23.35	D75			
						23.35 ... with occasional lenses of white silt (<10mm) and 1No pyrite nodule (<10mm)	23.40		N38	4, 4 / 7, 9, 11, 11	
							23.40-23.85	D76			
							24.00-24.45	U77	90 blows	89% Recovery	
			5.30		24.40		24.40	D78			
							24.50-24.95	UT79	80 blows	100% Recovery	
						Very stiff, greyish brown slightly sandy slightly micaceous silty CLAY with occasional pockets of light brown and dark grey silty fine sand (<20mm), frequent bioturbation, occasional lenses of white silt (<5mm), rare shell fragments (<10mm) and 1No pyrite nodule (<10mm). (THAMES GROUP: LONDON CLAY FORMATION - A3ii)	24.95	D80			
							25.00		N67	4, 6 / 7, 9, 10, 41	
							25.00-25.45	D81			
							25.50-25.95	U82	85 blows	78% Recovery	
						24.95 ... with rare pyrite nodules (<20mm)	25.85	D83			
						25.85 ... with frequent partings of light grey fine sand, occasional pockets of light brown fine sand (<20mm) and 1No pyrite nodule (<10mm)	25.90-26.35	UT84	80 blows	100% Recovery	
							26.35	D85			
						26.35 ... with frequent pockets of light brown fin sand (<25mm)	26.40		N39	5, 8 / 8, 10, 10, 11	
							26.40-26.85	D86			
26/08/21	11.50	Dry					27.00-37.45	U87	85 blows	78% Recovery	
27/08/21	11.50	Dry					27.35	D88			
							27.40-27.85	UT89	85 blows	78% Recovery	
							27.75	D90			
						27.80 ... with frequent partings and pockets of light brown fine sand (<10mm)	27.80		N40	4, 5 / 8, 9, 10, 13	
							27.80-28.25	D91			
							28.50-28.95	U92	90 blows	100% Recovery	
					(8.60)		28.95	D93			
						28.95 ... with occasional bioturbation	29.00-29.45	UT94	85 blows	89% Recovery	
							29.40	D95			
						29.50 ... with rare pockets of light grey fine sand (<10mm)	29.50		N41	4, 6 / 9, 9, 11, 12	
							29.50-29.95	D96			
							30.00-30.45	U97	90 blows	89% Recovery	
							30.40	D98			
						30.40 ... with rare bioturbation	30.50-30.95	UT99	85 blows	78% Recovery	
							30.85	D100			
						30.85 ... with rare partings of light brown fine sand, occasional off-white shell fragments (<10mm) and bioturbation	30.90		N46	4, 6 / 8, 10, 14, 14	
							30.90-31.35	D101			
							31.50-31.95	U102	90 blows	89% Recovery	
							31.90	D103			
						31.90 ... with frequent extremely weak to weak light brown claystone fragments (<15mm)	32.00-32.45	UT104	85 blows	78% Recovery	
							32.35	D105			
						32.40 ... becoming slightly sandy with occasional partings of light grey fine sand	32.40		N49	5, 8 / 9, 10, 14, 16	
							32.40-32.85	D106			
27/08/21	11.50	Dry					33.00-33.40	B107	80 blows	0% Recovery	
31/08/21	11.50	30.50									
31/08/21	11.50	32.50	-3.30		33.00						

Issue: FINAL

Logger: TP/JKH

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:15

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 23/08/21
Date Completed 03/09/21

Ground Level (mOD)
29.70

Co-Ordinates
E 511447.04 N 180152.91

Final Depth
47.50m

Client
HDCI Hayes London Limited

Method
Cable Percussion

Sheet
4 of 5

PROGRESS			STRATA				SAMPLES & TESTS				Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result			
31/08/21	11.50	Dry	-5.70		(2.40)	Very stiff, brownish grey slightly micaceous CLAY. (THAMES GROUP: LONDON CLAY FORMATION - A3i)	33.50-33.95	U108	90 blows	67% Recovery		
						33.80 ... with occasional pockets of light brown fine sand, frequent bioturbation, occasional white flecks and rare off-white shell fragments (<5mm)	33.80 33.90-34.35	D109 UT110	85 blows	89% Recovery		
							34.30 34.40-34.85	D111 D112	N51	3, 9 / 11, 11, 13, 16		
							35.00-35.45	U113	100 blows	89% Recovery		
							35.40 35.50-35.95	D114 UT115	85 blows	89% Recovery		
							35.90 36.00	D116	N54	5, 9 / 11, 13, 15, 15		
							36.00-36.45 36.40-36.60	D117 B118				
						36.40 - 36.60 ... with frequent weak to medium strong fine to coarse claystone fragments (<35mm)	36.70-37.15	U119	90 blows	89% Recovery		
							37.10 37.20-37.65	D120 UT121	85 blows	89% Recovery		
						37.60 ... with frequent white flecks	37.60 37.70-38.15	D122 D123	N45	4, 9 / 10, 10, 11, 14		
							38.30-38.75	U124	100 blows	89% Recovery		
							38.70 38.80-39.25	D125 UT126	90 blows	100% Recovery		
						39.25 ... with frequent partings of light grey fine sand and foraminifera	39.25 39.40-39.85	D127 D128	N58	6, 8 / 12, 14, 16, 16		
							40.00-40.45	U129	100 blows	89% Recovery		
							40.40 40.50-40.95	D130 D131	N62	6, 8 / 13, 15, 17, 17		
							41.00	D132				
					(11.05)	41.00 ... with frequent pockets of light brown fine sand (<10mm) and rare white flecks	41.50-41.95	U133	100 blows	78% Recovery		
							41.85 41.90	D134	N61	7, 10 / 11, 16, 17, 17		
						41.85 ... with rare partings of light brown and dark grey silty fine sand, off-white shell fragments (<5mm) and foraminifera	41.90-42.35	D135				
							42.50	D136				
							43.00-43.45	U137	100 blows	100% Recovery		
							43.45 43.50	D138	N51	5, 8 / 10, 12, 12, 17		
						43.45 ... becoming sandy with occasional pockets of dark grey silty fine sand and frequent foraminifera	43.50-43.95	D139				
							44.00	D140				

Issue: FINAL

Logger: TP/JKH

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:15

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 23/08/21
Date Completed 03/09/21

Ground Level (mOD)
29.70

Co-Ordinates
E 511447.04 N 180152.91

Final Depth
47.50m

Client

HDCI Hayes London Limited

Method

Cable Percussion

Sheet

5 of 5

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
31/08/21	11.50	Dry				44.00 ... with rare pockets of light brown silty fine sand (<25mm) and rare foraminifera	44.50-44.95	U141	100 blows	78% Recovery	
01/09/21	11.50	43.50				44.85 ... becoming slightly sandy with frequent partings of dark grey and light brown fine sand	44.85 44.90 44.90-45.35	D142 D143	N66	6, 9 / 14, 16, 17, 19	
						45.50 ... with frequent pockets of light brown fine sand (<15mm) and occasional pyrite nodules (<10mm)	45.50 46.00-46.45	D144 U145			
			-16.75		46.45	Very stiff, greyish brown slightly micaceous sandy silty CLAY with occasional off-white shell fragments (<10mm). (THAMES GROUP: HARWICH FORMATION: Swanscombe Member)	46.45 46.50 46.50-46.95	D146 D147	N78	7, 11 / 15, 19, 20, 24	
					(0.95)	47.00 ... with frequent pockets of light brownish grey fine sand (<35mm), off-white shell fragments (<15mm) and bioturbation	47.00 47.20-47.40	D148 B149			
01/09/21	46.50		-17.70 -17.80		47.40 47.50	47.20 - 47.40 ... becoming slightly gravelly. Gravel is subangular to rounded fine to coarse black flint No Recovery. End of Borehole	47.50		N116/85mm	5, 9 / 16, 100	

Issue: FINAL

Logger: TP/JKH

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:15



Borehole No

BH107

Project

L4 Colt DCS Data Centre

Job No 21/3600	Date Started 07/10/21 Date Completed 08/11/21	Ground Level (mOD) 29.68	Co-Ordinates E 511463.04 N 180236.67	Final Depth 49.50m
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Client

HDCI Hayes London Limited

BOREHOLE SUMMARY

Top (m)	Base (m)	Type	Date Started	Date Ended	Crew	Logged By	Barrel Type	Core Bit	Plant Used/ Method	SPT Hammer Reference
0.00	1.20	IP	07/10/2021	07/10/2021	ST	TP			Hand Excavated	AR779
1.20	49.50	CP	21/10/2021	05/11/2021	ST	TP			Dando 175	

WATER STRIKES

Strike at (m)	Rise to (m)	Time to Rise (min)	Casing Depth (m)	Sealed (m)
7.50	5.30	20	6.51	

WATER ADDED

From (m)	To (m)
1.50	5.50
7.50	14.00

CHISELLING / SLOW DRILLING

From (m)	To (m)	Duration (hr)	Remarks
34.00	34.25	00:20	Claystone

HOLE

Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)
0.00	250	0.00	250
7.50	250	6.51	250
32.50	200	15.07	200
49.50	150	33.00	150

CASING

Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)
0.00	250	0.00	250
7.50	250	6.51	250
32.50	200	15.07	200
49.50	150	33.00	150

DYNAMIC SAMPLING /ROTARY RECOVERY

From (m)	To (m)	Duration (hr)	Recovery (%)

ROTARY FLUSH DETAIL

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

INSTALLATION DETAILS

INSTALLATION DETAILS					
Type	Diameter (mm)	Depth of Installation (m)	Top of Response Zone (m)	Bottom of Response Zone (m)	Date of Installation
GWMP	50	35.00	33.00	35.00	08/11/2021

BACKFILL DETAILS

Top (m)	Bottom (m)	Material	Backfill Date	Remarks
0.00	0.20	Concrete	08/11/2021	Flush Cover
0.20	16.30	Bentonite Pellets		
16.30	31.00	Cement/ Bentonite Pellets		
31.00	33.00	Bentonite Pellets		
33.00	35.00	Pea Shingle		
35.00	49.50	Bentonite Pellets		

Project**L4 Colt DCS Data Centre**

Job No 21/3600	Date Started 07/10/21 Date Completed 08/11/21	Ground Level (mOD) 29.68	Co-Ordinates E 511463.04 N 180236.67	Final Depth 49.50m
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Client**HDCI Hayes London Limited**

PROGRESS					SPT DETAILS					
Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)	Remarks	Type	Depth (m)	N Value	Blow Count / 75mm	Casing Depth (m)	Water Depth (m)
07/10/21	0.00		Dry		C	1.50	N48	2, 2 / 7, 14, 14, 13	1.50	1.00
07/10/21	1.20		Dry		C	2.50	N52	2, 1 / 2, 11, 16, 23	2.50	2.00
21/10/21	1.20		0.50	... see Remark 1	C	3.50	N28	2, 2 / 4, 7, 8, 9	3.50	2.80
21/10/21	1.50	1.50	1.00	... Water Added	C	4.50	N12	2, 3 / 4, 2, 3, 3	4.50	3.70
21/10/21	2.50	2.50	2.00		C	5.50	N6	1, 1 / 1, 1, 1, 3	5.50	4.80
21/10/21	5.50	5.50	4.80		C	7.50	N30	2, 3 / 4, 8, 8, 10	6.51	5.30
21/10/21	6.50	6.50	6.10		C	8.00	N31	3, 4 / 6, 9, 7, 9	8.00	4.10
21/10/21	7.50	6.51	7.50	... Water Strike	C	9.50	N9	1, 1 / 2, 2, 2, 3	9.50	4.50
22/10/21	7.50	6.51	4.10	... Water Added	C	11.00	N24	3, 5 / 5, 5, 6, 8	11.00	5.30
22/10/21	9.50	9.50	4.50		C	12.50	N28	5, 5 / 6, 6, 8, 8	12.50	5.50
22/10/21	11.00	11.00	5.30		C	14.00	N28	4, 4 / 5, 7, 8, 8	14.00	5.80
22/10/21	12.50	12.50	5.50		S	16.00	N27	2, 3 / 5, 7, 7, 8	15.07	15.30
22/10/21	14.00	14.00	5.80		S	17.50	N19	2, 2 / 3, 4, 6, 6	15.07	15.80
22/10/21	14.50	14.50	Wet		S	19.00	N31	3, 4 / 6, 7, 9, 9	15.07	17.50
26/10/21	14.50	14.50	4.10		S	20.50	N26	2, 3 / 5, 6, 7, 8	15.07	Wet
26/10/21	18.00	15.07	17.50		S	22.00	N33	4, 6 / 8, 8, 8, 9	15.07	20.80
26/10/21	20.00	15.07	19.30		S	23.50	N31	3, 4 / 6, 7, 8, 10	15.07	19.50
26/10/21	23.00	15.07	22.80		S	25.00	N28	4, 4 / 5, 6, 8, 9	15.07	22.20
26/10/21	23.95	15.07	19.50		S	26.50	N38	5, 6 / 7, 10, 10, 11	15.07	27.00
27/10/21	23.95	15.07	14.64		S	28.00	N33	4, 5 / 7, 8, 9, 9	15.07	26.90
27/10/21	24.00	15.07	23.20		S	29.50	N40	4, 5 / 8, 10, 11, 11	15.07	20.55
27/10/21	27.00	15.07	27.00		S	31.00	N28	4, 4 / 5, 6, 8, 9	15.07	28.70
27/10/21	27.50	15.07	26.50		S	32.50	N33	5, 5 / 6, 8, 9, 10	15.07	27.30
27/10/21	28.00	15.07	24.70		S	34.00	N31	5, 6 / 6, 8, 8, 9	33.00	34.70
27/10/21	29.95	15.07	20.55		S	35.50	N34	3, 4 / 6, 8, 10, 10	33.00	33.80
28/10/21	29.95	15.07	9.88		S	37.00	N41	6, 7 / 8, 10, 11, 12	33.00	33.10
28/10/21	30.00	15.07	30.10		S	38.50	N39	6, 6 / 8, 9, 11, 11	33.00	32.60
28/10/21	31.50	15.07	31.00		S	40.00	N45	4, 6 / 10, 11, 11, 13	33.00	Wet
28/10/21	32.00	15.07	29.80		S	41.50	N36	3, 5 / 8, 8, 9, 11	33.00	Wet
28/10/21	32.50	33.00	27.30		S	43.00	N40	4, 6 / 9, 9, 10, 12	33.00	Wet
29/10/21	32.50	33.00	27.10		S	44.50	N48	4, 7 / 10, 10, 13, 15	33.00	Wet
29/10/21	37.00	33.00	33.10		S	46.00	N32	3, 3 / 5, 7, 9, 11	33.00	Wet
29/10/21	36.50	33.00	36.00		S	47.50	N52	6, 9 / 10, 11, 15, 16	33.00	Wet
29/10/21	38.60	33.00	32.60		S	49.00	N47	5, 7 / 10, 11, 12, 14	33.00	Wet
04/11/21	38.60	37.00	36.00							
04/11/21	46.90	37.00	43.70							
05/11/21	46.90	37.00	25.40							
05/11/21	49.50	37.00	32.30							
GENERAL REMARKS 1. Water entering the inspection pit between 07/10/2021 and 21/10/2021. 2. Water seepage encountered at 7.50m depth, rising to 6.90m (5 mins), 6.60m (10 mins), 6.10m (15 mins) and 5.30m (20 mins). 3. Unable to seal off the water. Water kept seeping in under the casing.										
KEY SAMPLES ES - Environmental Sample (Tub, Vial, Jar) AZCL: Assumed Zone of Core Loss 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 GMP - Gas monitoring point GWMP - Groundwater monitoring point SPIE - Standpipe piezometer EPIE - Electronic Piezometer SP - Standpipe 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, CPR-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										

Issue: FINAL

CHD: AN

APRV: OS

Log Print Date & Time:

07/02/2022 18:14

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 07/10/21
Date Completed 08/11/21

Ground Level (mOD)
29.68

Co-Ordinates
E 511463.04 N 180236.67

Final Depth
49.50m

Client
HDCI Hayes London Limited

Method
Cable Percussion

Sheet
1 of 5

PROGRESS			STRATA			SAMPLES & TESTS				Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
07/10/21		Dry	29.62		0.06	Asphalt.	0.30			VOC 0.6ppm	
			29.49		0.19	(MADE GROUND)	0.30	ES1			
			29.28		0.40	Light grey reinforced CONCRETE with Ø5mm rebar.	0.30	B2		VOC 0.4ppm	
							0.60	ES3			
					(0.80)	Black and red sandy GRAVEL with medium brick cobble content. Gravel comprises angular to subrounded fine to coarse asphalt and brick fragments.	0.60	B4			
07/10/21		Dry	28.48		1.20	(MADE GROUND)	1.20	ES5		VOC 0.6ppm	
21/10/21	1.50	0.50				Firm, orangish brown slightly sandy gravelly CLAY. Gravel is angular to subrounded fine to coarse flint. Sand is fine to coarse.	1.20	B6			
21/10/21	1.00	1.00				(ALLUVIUM / LYNCH HILL GRAVEL MEMBER?)	1.20-1.50	B7			
							1.50	B8	N48	2, 2 / 7, 14, 14, 13	
							1.50-2.00	AMAL8A			
							1.50-3.50				
21/10/21	2.50	2.00				Dense, orangish brown fine to coarse SAND and subangular to subrounded fine to coarse flint GRAVEL.	2.50		N52	2, 1 / 2, 11, 16, 23	
						(ALLUVIUM / LYNCH HILL GRAVEL MEMBER?)	2.50-3.00	B10		VOC 0.1ppm	
						2.50 ... becoming very dense	2.50	ES9			
					(4.30)		3.50		N28	2, 2 / 4, 7, 8, 9	
						3.50 ... becoming medium dense	3.50			VOC 0.1ppm	
							3.50	ES11			
							3.50-4.00	B12			
							4.50		N12	2, 3 / 4, 2, 3, 3	
							4.50-5.00	B13			
21/10/21	5.50	4.80	24.18		5.50		5.50		N6	1, 1 / 1, 1, 1, 3	
						Firm, brown mottled grey and red slightly gravelly silty CLAY. Gravel is subangular to subrounded fine to medium flint.	5.50	ES14		VOC 0.3ppm	
						(ALLUVIUM / LYNCH HILL GRAVEL MEMBER?)	5.50-6.00	B15			
						6.00 ... becoming grey with hydrocarbon odour and occasional dark grey flecks	6.00-6.50	B16			
21/10/21	6.50	6.10			(2.00)		6.50			VOC 0.1ppm	
							6.50-7.00	U17	30 blows	100% Recovery	
							6.50	ES18			
							7.00-7.45	U19	10 blows	100% Recovery	
							7.00	D20			
21/10/21	6.51	7.50	22.18		7.50		7.50		N30	2, 3 / 4, 8, 8, 10	
22/10/21	6.51	4.10				Medium dense to dense, brown silty fine to medium SAND.	7.50	D21			
					(0.50)	(LYNCH HILL GRAVEL MEMBER)	7.50-7.95	D22			
							7.50-8.00	B23			
							8.00		N31	3, 4 / 6, 9, 7, 9	
						Dense, orangish brown fine to coarse SAND and subangular to subrounded fine to coarse flint GRAVEL.	8.00-8.50	B24			
						(LYNCH HILL GRAVEL MEMBER)	8.00-11.00	AMAL24A			
							9.00	D25			
22/10/21	9.50	4.50					9.50		N9	1, 1 / 2, 2, 2, 3	
							9.50-10.00	B26			
							10.50	D27			
22/10/21	11.00	5.30			(5.90)		11.00		N24	3, 5 / 5, 5, 6, 8	

Issue: FINAL

Logger: TP

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:15

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 07/10/21
Date Completed 08/11/21

Ground Level (mOD)
29.68

Co-Ordinates
E 511463.04 N 180236.67

Final Depth
49.50m

Client

HDCI Hayes London Limited

Method

Cable Percussion

Sheet

2 of 5

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
22/10/21	12.50	5.50					11.00-11.50	B28			
							12.00	D29			
							12.50				
							12.50-13.00	B30	N28	5, 5 / 6, 6, 8, 8	
22/10/21	14.00	5.80	15.78		13.90		14.00		N28	4, 4 / 5, 7, 8, 8	
					(0.60)	Very stiff, brown mottled orange CLAY. (THAMES GROUP: WEATHERED LONDON CLAY FORMATION)	14.00	D31			
22/10/21	14.50	Wet	15.18		14.50		14.00-14.50	B32			
26/10/21	14.50	4.10					14.50-15.00	B33			
						Very stiff, fissured greyish brown slightly micaceous silty CLAY. (THAMES GROUP: LONDON CLAY FORMATION - B)	15.00-15.45	U34	60 blows	100% Recovery	
						14.50 - 15.00 ... with frequent bioturbation	15.50-15.95	U35	61 blows	100% Recovery	
						15.50 ... with occasional partings and pockets of silt (<10mm) and rare bioturbation	15.50	D36			
						16.00 ... with 1No medium gravel size claystone fragment	16.00	D37	N27	2, 3 / 5, 7, 7, 8	
							16.00-16.45	D38			
					(4.00)		16.50-16.95	U39	61 blows	100% Recovery	
						17.00 ... with 1No pyrite nodule	17.00-17.45	U40	61 blows	100% Recovery	
							17.00	D41			
						17.50 ... with occasional bioturbation and white flecks	17.50	D42	N19	2, 2 / 3, 4, 6, 6	
							17.50-17.95	D43			
26/10/21	15.07	17.50					18.00-18.45	U44	50 blows	100% Recovery	
			11.18		18.50		18.50-18.95	UT45	50 blows	100% Recovery	
						Very stiff, greyish brown CLAY with occasional partings of silt. (THAMES GROUP: LONDON CLAY FORMATION - A3ii)	18.50	D46			
						19.00 ... with frequent white flecks, occasional white flecks and rare bioturbation	19.00	D47	N31	3, 4 / 6, 7, 9, 9	
							19.00-19.45	D48			
							19.50-19.95	U49	56 blows	100% Recovery	
26/10/21	15.07	19.30					20.00-20.45	U50	56 blows	100% Recovery	
							20.00	D51			
						20.50 ... with occasional white flecks, rare bioturbation and 1No pyrite nodule	20.50	D52	N26	2, 3 / 5, 6, 7, 8	
							20.50-20.95	D53			
						21.00 ... becoming slightly micaceous with frequent bioturbation	21.00-21.45	U54		0% Recovery	
							21.00-21.50	B55			
							21.50-21.95	UT56	80 blows	100% Recovery	
							22.00		N33	4, 6 / 8, 8, 8, 9	

Issue: FINAL

Logger: TP

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:15

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 07/10/21
Date Completed 08/11/21

Ground Level (mOD)
29.68

Co-Ordinates
E 511463.04 N 180236.67

Final Depth
49.50m

Client
HDCI Hayes London Limited

Method
Cable Percussion

Sheet
3 of 5

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
26/10/21	15.07	22.80				22.00 ... with occasional pockets of dark grey fine sand and frequent white flecks 22.00 - 22.45 ... with 1No subrounded fine black flint gravel	22.00 22.00-22.45 22.50-22.95	D57 D58 U59	80 blows	100% Recovery	
					(9.50)	23.00 ... with occasional lenses of fine sand	23.00-23.45 23.00	UT60 D61	80 blows	100% Recovery	
26/10/21	15.07	19.50				23.50 ... with 1No pyritised lignite fragment (<4mm)	23.50 23.50-23.95	D62 D63	N31	3, 4 / 6, 7, 8, 10	
27/10/21	15.07	14.64				23.50 - 23.95 ... with frequent white flecks	24.00-24.45	U64	50 blows	100% Recovery	
27/10/21	15.07	23.20					24.50-24.95 24.50	UT65 D66	60 blows	100% Recovery	
							25.00 25.00-25.45	D67 D68	N28	4, 4 / 5, 6, 8, 9	
							25.50-25.95	U69	70 blows	100% Recovery	
							26.00-26.45 26.00	UT70 D71	75 blows	100% Recovery	
							26.50 26.50-26.95	D72 D73	N38	5, 6 / 7, 10, 10, 11	
27/10/21	15.07	27.00				26.50 ... with occasional fine to coarse gravel size clast fragments 26.50 - 26.95 ... with occasional white flecks	27.00-27.45	U74	80 blows	100% Recovery	
27/10/21	15.07	26.50				27.50 ... with rare bioturbation	27.50-27.95	D75 UT76	90 blows	100% Recovery	
27/10/21	15.07	24.70	1.68		28.00	Very stiff, greyish brown CLAY with occasional white flecks and rare bioturbation. (THAMES GROUP: LONDON CLAY FORMATION - A3i)	28.00 28.00-28.45 28.50-28.95	D77 D78 U79	N33 90 blows	4, 5 / 7, 8, 9, 9 100% Recovery	
						29.00 ... with rare pockets and lenses of fine sand (<20mm)	29.00-29.45 29.00	UT80 D81	100 blows	100% Recovery	
							29.50 29.50-29.95	D82 D83	N40	4, 5 / 8, 10, 11, 11	
27/10/21	15.07	20.55					30.00-30.45	U84	60 blows	100% Recovery	
28/10/21	15.07	9.88					30.50-30.95 30.50	UT85 D86	60 blows	100% Recovery	
28/10/21	15.07	30.10				30.50 ... with occasional fine to coarse gravel size clast fragments	31.00 31.00-31.45	D87 D88	N28	4, 4 / 5, 6, 8, 9	
28/10/21	15.07	31.00					31.50-31.95	U89	75 blows	100% Recovery	
28/10/21	15.07	29.80					32.00-32.45 32.00	UT90 D91	100 blows	100% Recovery	
28/10/21	33.00	27.30					32.50 32.50-32.95	D92 D93	N33	5, 5 / 6, 8, 9, 10	
29/10/21	33.00	27.10				32.50 ... with off-white and brown shell fragments	33.00-33.45	UT94	90 blows	30% Recovery	

Issue: FINAL

Logger: TP

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:15

Project

L4 Colt DCS Data Centre

Job No 21/3600	Date Started 07/10/21 Date Completed 08/11/21	Ground Level (mOD) 29.68	Co-Ordinates E 511463.04 N 180236.67	Final Depth 49.50m
Client HDCI Hayes London Limited			Method Cable Percussion	Sheet 4 of 5

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
29/10/21	33.00	36.00				33.30 ... with rare bioturbation and white flecks	33.00-33.45 33.30	U95 D96	90 blows	40% Recovery	
29/10/21	33.00	33.10				34.00 - 34.25 ... with a band of claystone	33.90 34.00 34.00-34.45 34.00-35.00	D97 D98 B99	N31	5, 6 / 6, 8, 8, 9	
29/10/21	33.00	32.60				35.50 ... with occasional bioturbation	35.00-35.45 35.50 35.50-35.95	U100 D101 D102	100 blows N34	100% Recovery 3, 4 / 6, 8, 10, 10	
29/10/21	33.00	36.00				37.00 ... becoming micaceous	36.50-36.95 37.00 37.00-37.45	UT103 D104 D105	100 blows N41	100% Recovery 6, 7 / 8, 10, 11, 12	
04/11/21	37.00	36.00				38.50 ... becoming slightly sandy with occasional white flecks	38.00-38.45 38.50 38.50-38.95	U106 D107 D108	100 blows N39	100% Recovery 6, 6 / 8, 9, 11, 11	
						39.95 ... becoming slightly sandy with rare bioturbation and 1No pyrite nodule	39.50-39.95 39.95 40.00-40.45	UT109 D110 D111	100 blows N45	100% Recovery 4, 6 / 10, 11, 11, 13	
						41.50 ... with occasional pockets of sand (<50mm) and lignite fragments	41.00-41.45 41.45 41.50-41.95	UT112 D113 D114	100 blows N36	100% Recovery 3, 5 / 8, 8, 9, 11	
						42.50 ... with frequent pockets of sand (<10mm), bioturbation and 1No pyrite nodule	42.50-42.95 42.90 43.00-43.45	UT115 D116 D117	100 blows N40	89% Recovery 4, 6 / 9, 9, 10, 12	
						43.00 ... with frequent white flecks and rare bioturbation	44.00-44.45	UT118	100 blows	100% Recovery	

Issue: FINAL	Logger: TP	CHD: AN	APRV: OS	Log Print Date & Time: 07/02/2022 18:15	AGS
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Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 07/10/21
Date Completed 08/11/21

Ground Level (mOD)
29.68

Co-Ordinates
E 511463.04 N 180236.67

Final Depth
49.50m

Client

HDCI Hayes London Limited

Method

Cable Percussion

Sheet

5 of 5

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument Backfill	
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result			
04/11/21 05/11/21	37.00 37.00	43.70 25.40	-16.22		45.90	44.45 ... becoming silty 44.50 - 44.95 ... with 1No pyrite nodule	44.45 44.50 44.50-44.95	D119 D120	N48	4, 7 / 10, 10, 13, 15		
						45.50-45.95	UT121	100 blows	100% Recovery			
			-18.12		(1.90)	Very stiff, grey sandy CLAY. (LAMBETH GROUP: WOOLWICH FORMATION: Upper Shelly Beds) 46.00 ... with occasional extremely weak light grey claystone fragments	45.95 46.00 46.00-46.45	D122 D123	N32	3, 3 / 5, 7, 9, 11		
						46.50-46.95	UT124	100 blows	89% Recovery			
47.00 ... becoming silty	46.90 47.00-47.45	D125 UT126				100 blows	0% Recovery					
47.50 ... with occasional to frequent laminae of silt	47.50 47.50-47.95	D127				N52	6, 9 / 10, 11, 15, 16					
05/11/21	37.00	32.30	-19.82		(1.70)	Very stiff, grey mottled red silty CLAY. (LAMBETH GROUP: READING FORMATION: Upper Mottled Beds) 47.90 ... becoming mottled red 48.00 ... becoming purplish grey	48.50-48.95	UT128	100 blows	100% Recovery		
						49.00 ... becoming mottled light grey	48.95 49.00 49.00-49.45	D129 D130	N47	5, 7 / 10, 11, 12, 14		
						End of Borehole						

Issue: FINAL

Logger: TP

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:15

Project

L4 Colt DCS Data Centre

Job No

21/3600

Date Started

07/10/21

Date Completed

20/10/21

Ground Level (mOD)

29.79

Co-Ordinates

E 511479.57 N 180188.55

Final Depth

25.45m

Client

HDCI Hayes London Limited

BOREHOLE SUMMARY

Top (m)	Base (m)	Type	Date Started	Date Ended	Crew	Logged By	Barrel Type	Core Bit	Plant Used/ Method	SPT Hammer Reference
0.00	1.20	IP	07/10/2021	07/10/2021	ST	TP			Hand Excavated	
1.20	25.45	CP	15/10/2021	19/10/2021	ST	TP			Dando 1000	AR779

WATER STRIKES

WATER ADDED

CHISELLING / SLOW DRILLING

Strike at (m)	Rise to (m)	Time to Rise (min)	Casing Depth (m)	Sealed (m)	From (m)	To (m)	From (m)	To (m)	Duration (hr)	Remarks
					1.20	5.80	15.50	16.00	00:30	Claystone

HOLE

CASING

Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)
0.00	200	0.00	200
9.10	200	9.10	200
25.45	150	10.60	150

DYNAMIC SAMPLING /ROTARY RECOVERY

From (m)	To (m)	Duration (hr)	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
GWMP	50	9.00	2.00	9.00	20/10/2021
GWMP	19	16.00	15.00	16.00	20/10/2021

BACKFILL DETAILS

Top (m)	Bottom (m)	Material	Backfill Date	Remarks
0.00	0.20	Concrete	20/10/2021	Flush Cover
0.20	2.00	Bentonite Pellets		
2.00	9.00	Pea Shingle		
9.00	15.00	Bentonite Pellets		
15.00	16.00	Pea Shingle		
16.00	25.45	Bentonite Pellets		

Issue: FINAL

CHD: AN

APRV: OS

Log Print Date & Time:

07/02/2022 18:14

Project**L4 Colt DCS Data Centre****Job No****21/3600****Date Started**

07/10/21

Date Completed

20/10/21

Ground Level (mOD)

29.79

Co-Ordinates

E 511479.57 N 180188.55

Final Depth

25.45m

Client**HDCI Hayes London Limited****PROGRESS****SPT DETAILS**

Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)	Remarks	Type	Depth (m)	N Value	Blow Count / 75mm	Casing Depth (m)	Water Depth (m)
07/10/21	0.00		Dry	... Water Added	C	1.20	N50/140	10, 15 / 40, 10		Dry
07/10/21	1.20		Dry		C	2.00	N50	8, 14 / 20, 11, 13, 6	2.00	1.30
15/10/21	1.20		1.30		C	3.00	N23	2, 4 / 5, 6, 5, 7	2.00	1.90
15/10/21	2.00	2.00	1.90		C	4.00	N23	3, 4 / 5, 5, 6, 7	4.00	3.10
15/10/21	4.00	4.00	3.10		C	5.00	N28	3, 4 / 6, 7, 7, 8	4.00	3.10
15/10/21	5.00	4.00	4.90		C	6.00	N9	2, 1 / 2, 2, 3, 2	6.00	4.90
15/10/21	7.00	6.00	6.50		C	7.00	N35	2, 4 / 7, 8, 9, 11	6.00	4.90
15/10/21	8.00	8.00	8.30		C	8.00	N26	3, 3 / 4, 6, 7, 9	8.00	6.50
15/10/21	9.10	9.10	8.30		C	9.00	N7	2, 2 / 2, 1, 2, 2	9.00	8.30
18/10/21	9.10	9.10	8.30		S	10.50	N19	2, 2 / 3, 5, 5, 6	9.10	9.50
18/10/21	9.50	9.10	9.10	... see Remark 2	S	12.50	N21	3, 3 / 4, 5, 6, 6	10.60	Dry
18/10/21	10.50	9.10	9.50		S	14.00	N23	2, 3 / 5, 6, 6, 6	10.60	Dry
18/10/21	12.00	10.60	Dry		S	15.50	N50/185	25 / 20, 20, 10	10.60	Dry
18/10/21	17.50	10.60	Dry		S	17.50	N28	3, 3 / 6, 6, 8, 8	10.60	Dry
19/10/21	17.50	10.60	Dry		S	19.00	N34	3, 5 / 7, 7, 9, 11	10.60	Dry
19/10/21	18.00	10.60	Dry		S	20.50	N27	3, 4 / 5, 6, 7, 9	10.60	18.50
19/10/21	19.50	10.60	15.50		S	22.00	N17	2, 2 / 3, 3, 5, 6	10.60	21.70
19/10/21	21.00	10.60	19.80		S	23.50	N28	2, 3 / 6, 7, 7, 8	10.60	23.00
19/10/21	22.00	10.60	21.70		S	25.00	N29	3, 5 / 5, 7, 8, 9	10.60	24.30
19/10/21	23.00	10.60	22.60							
19/10/21	23.50	10.60	23.00							
19/10/21	24.00	10.60	23.20							
19/10/21	24.50	10.60	23.80							
19/10/21	25.45	10.60	24.30							

GENERAL REMARKS

- Water seepage encountered in the inspection pit at 1.20m depth.
- Water entering the borehole at 19.50m depth possibly from Ø200mm casing. Unable to seal off the water.

KEY**SAMPLES**

ES - Environmental Sample (Tub, Vial, Jar) AZCL: Assumed Zone of Core Loss
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

GMP - Gas monitoring point
GWMP - Groundwater monitoring point
SPIE - Standpipe piezometer
EPIE - Electronic Piezometer
SP - Standpipe

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, CPR-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 KeyIssue: **FINAL**CHD: **AN**APRV: **OS**

Log Print Date & Time:

07/02/2022 18:14

Project

L4 Colt DCS Data Centre

Job No 21/3600	Date Started 07/10/21 Date Completed 20/10/21	Ground Level (mOD) 29.79	Co-Ordinates E 511479.57 N 180188.55	Final Depth 25.45m
Client HDCI Hayes London Limited			Method Cable Percussion	Sheet 1 of 3

PROGRESS			STRATA			SAMPLES & TESTS				Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
07/10/21		Dry	29.49		0.30	CONCRETE, clasts are angular flint gravel.	0.30			VOC 0.2ppm	
			29.34		0.45	Black and red sandy GRAVEL with low brick and asphalt cobble content. Gravel comprises angular fine to coarse brick and asphalt fragments. (MADE GROUND)	0.30	ES1			
							0.30	B2		VOC 0ppm	
					(0.75)		0.60	ES3			
							0.60	B4			
07/10/21		Dry	28.59		1.20	Brown silty CLAY. Gravel is angular to subangular fine to coarse flint. Sand is fine to coarse. (ALLUVIUM / LYNCH HILL GRAVEL MEMBER?)	1.20		N50/140mm	10, 15 / 40, 10	
15/10/21		1.30					1.20	ES5			
							1.20	B6			
							1.20-1.50	B7			
							1.50			VOC 0.3ppm	
15/10/21	2.00	1.90				Dense to medium dense, brownish orange fine to coarse SAND and subangular to subrounded fine to coarse flint GRAVEL. (LYNCH HILL GRAVEL MEMBER)	2.00	ES8			
							2.00-2.50	B9	N50	8, 14 / 20, 11, 13, 6	
							2.50			VOC 0.2ppm	
							2.50	ES10			
						3.00 ... becoming medium dense	3.00		N23	2, 4 / 5, 6, 5, 7	
							3.00-3.50	B11			
							3.00	AMAL11A			
					(4.80)						
15/10/21	4.00	3.10					4.00		N23	3, 4 / 5, 5, 6, 7	
							4.00-4.50	B12			
15/10/21	4.00	4.90					5.00		N28	3, 4 / 6, 7, 7, 8	
							5.00-5.50	B13			
			23.79		6.00		6.00		N9	2, 1 / 2, 2, 3, 2	
							6.00-6.50	B14			
15/10/21	6.00	6.50				Loose, brown and orange slightly gravelly medium SAND. Gravel is subangular to subrounded fine to coarse. (LYNCH HILL GRAVEL MEMBER)					
							7.00		N35	2, 4 / 7, 8, 9, 11	
						7.00 ... becoming dense	7.00-7.50	B15			
					(3.10)						
15/10/21	8.00	8.30				8.00 ... becoming medium dense and very gravelly	8.00		N26	3, 3 / 4, 6, 7, 9	
							8.00-8.50	B16			
15/10/21	9.10	8.30	20.69		9.10		9.00		N7	2, 2 / 2, 1, 2, 2	
18/10/21	9.10	8.30					9.10-9.50	B17			
18/10/21	9.10	9.10				Firm, fissured brownish grey micaceous silty CLAY. (THAMES GROUP: LONDON CLAY FORMATION - B)	9.40	ES18		VOC 0.1ppm	
							9.50-9.95	U19	44 blows	100% Recovery	
						10.00 ... with partings of sand and occasional bioturbation	10.00-10.45	UT20	45 blows	100% Recovery	
							10.00	B21			
18/10/21	9.10	9.50				10.50 ... becoming very stiff with occasional white flecks	10.50		N19	2, 2 / 3, 5, 5, 6	
							10.50	D22			
							10.50-10.95	D23			
							11.00-11.45	U24	100 blows	0% Recovery	

Project

L4 Colt DCS Data Centre

Job No 21/3600	Date Started 07/10/21 Date Completed 20/10/21	Ground Level (mOD) 29.79	Co-Ordinates E 511479.57 N 180188.55	Final Depth 25.45m
Client HDCI Hayes London Limited			Method Cable Percussion	Sheet 2 of 3

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
18/10/21	10.60	Dry				12.00 ... with pockets of silt (<10mm)	11.50-11.95	U25	65 blows	100% Recovery	
						12.50 ... with frequent white flecks	12.00-12.45 12.00	UT26 D27	75 blows	100% Recovery	
							12.50 12.50	D28 D29	N21	3, 3 / 4, 5, 6, 6	
							12.50-12.95				
							13.00-13.45	U30	71 blows	100% Recovery	
							13.50-13.95 13.50	UT31 D32	67 blows	100% Recovery	
							14.00 14.00	D33 D34	N23	2, 3 / 5, 6, 6, 6	
						14.50 ... with occasional pockets of fine sand (<10mm)	14.50-14.95	U35	65 blows	100% Recovery	
							15.00-15.45 15.00	UT36 D37	69 blows	100% Recovery	
						15.50 - 16.00 ... with a band of angular coarse claystone fragments	15.50 15.50	D38 D39	N50/185mm	25 / 20, 20, 10	
							15.50-15.95 15.50-16.00	B40			
							16.50-16.95 16.50-17.00	U41 B42	100 blows	0% Recovery	
							17.00-17.45	UT43	100 blows	100% Recovery	
18/10/21	10.60	Dry			(16.35)	17.50 ... with occasional white flecks	17.50 17.50	D44 D45	N28	3, 3 / 6, 6, 8, 8	
19/10/21	10.60	Dry					17.50-17.95				
							18.00-18.45	U46	58 blows	100% Recovery	
							18.50-18.95 18.50	UT47 D48	67 blows	100% Recovery	
						18.50 ... with frequent bioturbation and rare white flecks					
						19.00 ... with occasional white shell fragments and rare bioturbation	19.00 19.00	D49 D50	N34	3, 5 / 7, 7, 9, 11	
19/10/21	10.60	15.50					19.00-19.45				
							19.50-19.95	U51	90 blows	100% Recovery	
						20.00 ... with occasional white flecks	20.00-20.45 20.00	UT52 D53	95 blows	100% Recovery	
							20.50 20.50	D54 D55	N27	3, 4 / 5, 6, 7, 9	
19/10/21	10.60	19.80				20.50 ... with 1No pyrite (<10mm)	20.50-20.95				
							21.00-21.45	U56	70 blows	100% Recovery	
						21.50 ... with rare bioturbation	21.50-21.95 21.50	UT57 D58	80 blows	100% Recovery	
19/10/21	10.60	21.70					22.00		N17	2, 2 / 3, 3, 5, 6	

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 07/10/21
Date Completed 20/10/21

Ground Level (mOD)
29.79

Co-Ordinates
E 511479.57 N 180188.55

Final Depth
25.45m

Client

HDCI Hayes London Limited

Method

Cable Percussion

Sheet

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
19/10/21	10.60	22.60				22.00 ... with occasional bioturbation, white shell fragments and white flecks	22.00 22.00-22.45 22.50-22.95	D59 D60 U61	100 blows	90% Recovery	
19/10/21	10.60	23.00					23.00-23.45 23.00	UT62 D63	100 blows	95% Recovery	
19/10/21	10.60	23.20					23.50 23.50 23.50-23.95	D64 D65	N28	2, 3 / 6, 7, 8	
19/10/21	10.60	23.80					24.00-24.45	U66	100 blows	100% Recovery	
19/10/21	10.60	24.30				24.50 ... becoming slightly sandy with frequent bioturbation	24.50-24.95 24.50	UT67 D68	100 blows	100% Recovery	
19/10/21	10.60	24.30	4.34		25.45	25.00 ... becoming extremely closely fissured with occasional bioturbation	25.00 25.00 25.00-25.45	D69 D70	N29	3, 5 / 5, 7, 8, 9	
						End of Borehole					

Issue: FINAL

Logger: TP

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:15

Project

L4 Colt DCS Data Centre

Job No

21/3600

Date Started

30/09/21

Date Completed

13/10/21

Ground Level (mOD)

29.17

Co-Ordinates

E 511539.88 N 180208.41

Final Depth

25.00m

Client

HDCI Hayes London Limited

BOREHOLE SUMMARY

Top (m)	Base (m)	Type	Date Started	Date Ended	Crew	Logged By	Barrel Type	Core Bit	Plant Used/ Method	SPT Hammer Reference
0.00	25.00	CP	12/10/2021	13/10/2021	ST	TP			Dando 1000	AR779

WATER STRIKES

WATER ADDED

CHISELLING / SLOW DRILLING

Strike at (m)	Rise to (m)	Time to Rise (min)	Casing Depth (m)	Sealed (m)	From (m)	To (m)	From (m)	To (m)	Duration (hr)	Remarks
					4.00	8.00	15.00	15.30	00:35	Claystone

HOLE

CASING

Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)
0.00	200	0.00	200
10.50	200	10.50	200
25.00	150	10.95	150

DYNAMIC SAMPLING /ROTARY RECOVERY

From (m)	To (m)	Duration (hr)	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
GWMP	19	22.50	21.50	22.50	13/10/2021

BACKFILL DETAILS

Top (m)	Bottom (m)	Material	Backfill Date	Remarks
0.00	0.20	Concrete	13/10/2021	Flush Cover
0.20	21.50	Bentonite Pellets		
21.50	22.50	Pea Shingle		
22.50	25.00	Bentonite Pellets		

Project**L4 Colt DCS Data Centre****Job No**
21/3600**Date Started** 30/09/21
Date Completed 13/10/21**Ground Level (mOD)**
29.17**Co-Ordinates**
E 511539.88 N 180208.41**Final Depth**
25.00m**Client****HDCI Hayes London Limited****PROGRESS****SPT DETAILS**

Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)	Remarks
12/10/21	0.00		Dry	
12/10/21	4.00	4.00	2.80	... Water Added
12/10/21	5.00	5.00	2.90	... see Remark 2
12/10/21	6.00	6.00	3.00	
12/10/21	7.00	7.00	2.80	
12/10/21	8.00	8.00	Dry	... see Remark 3
12/10/21	10.95	10.50	Dry	
13/10/21	10.95	10.50	Dry	
13/10/21	25.00	10.95	Dry	

Type	Depth (m)	N Value	Blow Count / 75mm	Casing Depth (m)	Water Depth (m)
C	4.00	N17	1, 2 / 3, 4, 6, 4	4.00	2.80
C	5.00	N40	2, 4 / 9, 9, 11, 11	5.00	2.90
C	6.00	N32	3, 5 / 7, 8, 8, 9	6.00	3.00
C	7.00	N17	3, 6 / 6, 5, 3, 3	7.00	2.80
S	9.00	N18	2, 3 / 4, 4, 5, 5	7.95	Dry
S	10.50	N17	2, 3 / 4, 4, 4, 5	8.29	Dry
S	12.00	N25	2, 3 / 5, 6, 6, 8	10.95	Dry
S	14.00	N22	2, 4 / 4, 5, 6, 7	10.95	Dry
S	15.00	N50/25	25 / 50	10.95	Dry
S	16.50	N26	3, 4 / 5, 6, 7, 8	10.95	Dry
S	18.00	N29	3, 4 / 6, 6, 8, 9	10.95	Dry
S	19.50	N27	3, 4 / 6, 6, 7, 8	10.95	Dry
S	21.50	N31	3, 4 / 6, 7, 8, 10	10.95	Dry
S	22.50	N31	4, 5 / 5, 7, 8, 11	10.95	Dry
S	24.00	N32	4, 5 / 7, 7, 8, 10	10.95	Dry

GENERAL REMARKS

- Borehole carried out through backfilled WS215.
- Possible water seepage encountered at 2.80m depth masked by added water to assist drilling.
- Borehole bailed dry and water sealed off at 8.00m depth.

KEY**SAMPLES**

ES - Environmental Sample (Tub, Vial, Jar) AZCL: Assumed Zone of Core Loss
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

GMP - Gas monitoring point
GWMP - Groundwater monitoring point
SPIE - Standpipe piezometer
EPIE - Electronic Piezometer
SP - Standpipe

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, CPR-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

Issue: FINAL

CHD: AN

APRV: OS

Log Print Date & Time:

07/02/2022 18:14

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 30/09/21
Date Completed 13/10/21

Ground Level (mOD)
29.17

Co-Ordinates
E 511539.88 N 180208.41

Final Depth
25.00m

Client

HDCI Hayes London Limited

Method

Cable Percussion

Sheet

1 of 3

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
12/10/21		Dry	28.99		0.18	Reinforced light grey CONCRETE, clasts are angular to subrounded fine to coarse flint gravel (max. spacing between aggregate <7mm). Frequent air voids (<4mm).	0.00			... Refer to WS215 for sampling	
					(1.02)	Dark brownish grey gravelly silty very clayey fine to coarse SAND with medium brick and concrete cobble content and rare roots. Gravel comprises angular to subrounded fine to coarse flint, concrete and brick fragments. (MADE GROUND)					
			27.97		1.20	Firm, dark brown slightly sandy gravelly CLAY. Gravel is angular to subangular fine to medium flint. Sand is fine to coarse. (ALLUVIUM / LYNCH HILL GRAVEL MEMBER?)					
			27.07		2.10	Dense, greyish green gravelly fine to medium SAND. Gravel is angular to subangular fine to coarse flint. (LYNCH HILL GRAVEL MEMBER)					
			26.17		3.00	Dense, greyish green sandy angular to subangular fine to medium flint GRAVEL. (LYNCH HILL GRAVEL MEMBER)					
			25.97		3.20	Medium dense, orange and brown fine to coarse SAND and subangular to subrounded fine to coarse flint GRAVEL. (LYNCH HILL GRAVEL MEMBER)					
12/10/21	4.00	2.80					4.00		N17	1, 2 / 3, 4, 6, 4	
							4.00-4.50	B1			
							4.50			VOC 0.2ppm	
							4.50	ES2			
12/10/21	5.00	2.90				5.00 ... becoming dense	5.00		N40	2, 4 / 9, 9, 11, 11	
							5.00-5.50	B3			
					(4.15)		5.50			VOC 0.5ppm	
							5.50	ES4			
12/10/21	6.00	3.00				6.00 ... becoming medium dense	6.00		N32	3, 5 / 7, 8, 8, 9	
							6.00-6.50	B5			
							6.00-7.50	AMAL5A			
12/10/21	7.00	2.80					7.00		N17	3, 6 / 6, 5, 3, 3	
							7.00-7.30	B6			
			21.82		7.35	Very stiff, brown silty CLAY. (THAMES GROUP: WEATHERED LONDON CLAY)					
			21.37		(0.45) 7.80	Very stiff, fissured brownish grey slightly micaceous silty CLAY. (THAMES GROUP: LONDON CLAY FORMATION - B)	7.80			VOC 0.3ppm	
12/10/21	8.00	Dry					7.80	ES7			
							8.00-8.45	D8			
							8.00-8.45	U9	36 blows	100% Recovery	
							8.50-8.95	UT10	38 blows	100% Recovery	
							8.50	D11			
						9.00 ... with frequent bioturbation	9.00		N18	2, 3 / 4, 4, 5, 5	
							9.00-9.45	D12			
							9.00-9.45	D13			
							9.50-9.95	U14	32 blows	0% Recovery	
							9.50-10.00	B15			
							10.00-10.45	UT16	38 blows	100% Recovery	
							10.50		N17	2, 3 / 4, 4, 4, 5	
							10.50	D17			
							10.50-10.95	D18			
12/10/21	10.50	Dry					11.00-11.45	U19	44 blows	100% Recovery	

Issue: FINAL

Logger: TP

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:15

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 30/09/21
Date Completed 13/10/21

Ground Level (mOD)
29.17

Co-Ordinates
E 511539.88 N 180208.41

Final Depth
25.00m

Client

HDCI Hayes London Limited

Method

Cable Percussion

Sheet

2 of 3

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
13/10/21	10.50	Dry			(7.50)	11.50 ... with rare bioturbation	11.50-11.95 11.50	UT20 D21	46 blows	100% Recovery	
						12.00 ... with occasional white flecks and 1No white shell fragment	12.00 12.00-12.45	D22 D23	N25	2, 3 / 5, 6, 6, 8	
							12.50-12.95	U24	48 blows	100% Recovery	
							13.00-13.45 13.00	UT25 D26	64 blows	100% Recovery	
						13.50 ... with lenses of silt (<50mm)	13.50 13.50-13.95	D27 D28			
							14.00 14.00-14.45	U29	N22 48 blows	2, 4 / 4, 5, 6, 7 100% Recovery	
							14.50-14.95 14.50	UT30 D31	76 blows	100% Recovery	
							15.00 15.00-15.45	D32 D33	N50/25mm	25 / 50	
			13.87		15.30	15.00 - 15.50 ... with a band of light grey claystone	15.00 15.00-15.60	B34			
			13.67		15.50	Stiff, brownish grey slightly sandy CLAY with occasional bioturbation and 1No pyrite nodule. Sand is fine. (THAMES GROUP: LONDON CLAY FORMATION - A3i)	15.50-15.95	U35	54 blows	100% Recovery	
						Stiff, brownish grey slightly micaceous CLAY. (THAMES GROUP: LONDON CLAY FORMATION - A2)	16.00-16.45 16.00	UT36 D37	66 blows	100% Recovery	
						16.50 ... with rare to occasional partings of fine sand, occasional bioturbation and white flecks	16.50 16.50-16.95	D38 D39	N26	3, 4 / 5, 6, 7, 8	
							17.00-17.45	U40	62 blows	100% Recovery	
							17.50-17.95 17.50	UT41 D42	78 blows	100% Recovery	
						18.00 ... with 1No white shell fragment	18.00 18.00-18.45	D43 D44	N29	3, 4 / 6, 6, 8, 9	
							18.50-18.95	U45	72 blows	100% Recovery	
						19.00 ... with rare pockets of silt (<3mm)	19.00-19.45 19.00	UT46 D47	80 blows	100% Recovery	
							19.50 19.50-19.95	D48 D49	N27	3, 4 / 6, 6, 7, 8	
							20.00-20.45	U50	48 blows	100% Recovery	
					(9.50)	20.50 ... with rare bioturbation	20.50-20.95 20.50	UT51 D52	64 blows	100% Recovery	
						21.00 ... with 1No pyrite nodule	21.00 21.00-21.45	D53 D54			
							21.50 21.50-21.95	U55	N31 38 blows	3, 4 / 6, 7, 8, 10 100% Recovery	
							22.00-22.45	UT56	62 blows	100% Recovery	

Issue: FINAL

Logger: TP

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:15

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 30/09/21
Date Completed 13/10/21

Ground Level (mOD)
29.17

Co-Ordinates
E 511539.88 N 180208.41

Final Depth
25.00m

Client

HDCI Hayes London Limited

Method

Cable Percussion

Sheet

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PROGRESS

STRATA

SAMPLES & TESTS

Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result	Field Records	Instrument Backfill
13/10/21	10.95	Dry	4.17		25.00	22.50 ... with pockets of fine sand (<15mm), 1No white shell fragment and 1No pyrite nodule	22.00	D57			
							22.50		N31	4, 5 / 5, 7, 8, 11	
							22.50	D58			
							22.50-22.95	D59			
							23.00-23.45	U60	100 blows	45% Recovery	
							23.45	D61			
							23.50-23.95	UT62	68 blows	100% Recovery	
							24.00		N32	4, 5 / 7, 7, 8, 10	
							24.00	D63			
							24.00-24.45	D64			
							24.50-24.95	U65	80 blows	100% Recovery	
							25.00	D66			
						25.00 ... with frequent pockets of silt End of Borehole					

Issue: FINAL

Logger: TP

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:15



Borehole No

BH110

Project

L4 Colt DCS Data Centre

Job No 21/3600	Date Started 04/10/21 Date Completed 13/10/21	Ground Level (mOD) 29.60	Co-Ordinates E 511514.83 N 180265.33	Final Depth 48.45m
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Client

HDCI Hayes London Limited

BOREHOLE SUMMARY

Top (m)	Base (m)	Type	Date Started	Date Ended	Crew	Logged By	Barrel Type	Core Bit	Plant Used/ Method	SPT Hammer Reference
0.00	1.40	IP	04/10/2021	04/10/2021	ST	TP/ CS			Hand Excavated	
1.40	48.45	CP	04/10/2021	13/10/2021	ST	CS/ TP			Dando 175	EQU040

WATER STRIKES

Strike at (m)	Rise to (m)	Time to Rise (min)	Casing Depth (m)	Sealed (m)
3.27	3.27	20	3.00	

WATER ADDED

From (m)	To (m)

CHISELLING / SLOW DRILLING

From (m)	To (m)	Duration (hr)	Remarks
17.20	17.30	00:30	Claystone
32.50	33.00	00:45	Claystone
46.10	47.00	02:00	Slow Drilling

HOLE

ROD		CASING	
Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)
0.00	250	0.00	250
12.60	250	12.60	250
34.00	200	13.00	200
48.45	150	40.00	150

CASING

ROD		CASING	
Depth (m)	Diameter (mm)	Depth (m)	Diameter (mm)
0.00	250	0.00	250
12.60	250	12.60	250
34.00	200	13.00	200
48.45	150	40.00	150

DYNAMIC SAMPLING /ROTARY RECOVERY

From (m)	To (m)	Duration (hr)	Recovery (%)

ROTARY FLUSH DETAIL

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

INSTALLATION DETAILS

INSTALLATION DETAILS					
Type	Diameter (mm)	Depth of Installation (m)	Top of Response Zone (m)	Bottom of Response Zone (m)	Date of Installation
GWMP	19	34.00	33.00	34.00	13/10/2021

BACKFILL DETAILS

Top (m)	Bottom (m)	Material	Backfill Date	Remarks
0.00	0.50	Concrete	13/10/2021	Flush Cover
0.50	30.00	Cement/ Bentonite Pellets		
30.00	33.00	Bentonite Pellets		
33.00	34.00	Pea Shingle		
34.00	48.45	Bentonite Pellets		

Project**L4 Colt DCS Data Centre**

Job No 21/3600	Date Started 04/10/21 Date Completed 13/10/21	Ground Level (mOD) 29.60	Co-Ordinates E 511514.83 N 180265.33	Final Depth 48.45m
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Client**HDCI Hayes London Limited**

PROGRESS					SPT DETAILS					
Date	Hole Depth (m)	Casing Depth (m)	Water Depth (m)	Remarks	Type	Depth (m)	N Value	Blow Count / 75mm	Casing Depth (m)	Water Depth (m)
04/10/21	0.00		Dry	... Water Strike	C	1.50	N20	3, 5 / 5, 5, 5, 5	1.50	Dry
04/10/21	1.20		Dry		C	3.00	N31	5, 8 / 9, 7, 8, 7	3.00	Dry
04/10/21	3.27	3.00	3.27		C	5.00	N28	4, 5 / 6, 7, 7, 8	5.00	3.20
04/10/21	4.00	4.00	3.20		C	6.50	N2	1, 0 / 1, 0, 1, 0	6.50	3.20
04/10/21	9.95	9.50	5.20	... See Remark 3	C	8.00	N13	3, 4 / 3, 3, 3, 4	8.00	3.20
05/10/21	9.95	9.50	3.27		C	9.50	N16	2, 3 / 3, 3, 5, 5	9.50	3.20
05/10/21	11.00	11.00	3.30		C	11.00	N14	3, 4 / 3, 3, 4, 4	11.00	3.30
05/10/21	13.00	13.00	Wet		C	12.50	N15	3, 3 / 3, 4, 4, 4	12.50	3.30
05/10/21	15.50	13.00	8.20		S	14.00	N27	4, 4 / 5, 6, 8, 8	13.00	Wet
05/10/21	17.00	13.00	9.90		S	15.50	N28	5, 5 / 5, 7, 8, 8	13.00	8.20
05/10/21	17.50	13.00	10.00		S	17.00	N50/80	25 / 37, 13	13.00	9.90
06/10/21	17.50	13.00	11.90		S	19.00	N21	4, 4 / 5, 5, 5, 6	13.00	11.90
06/10/21	18.00	13.00	12.35		S	20.50	N43	5, 5 / 9, 10, 12, 12	13.00	18.32
06/10/21	20.50	13.00	18.32		S	22.00	N35	4, 5 / 8, 8, 9, 10	13.00	21.30
06/10/21	21.00	13.00	18.78		S	23.50	N39	4, 6 / 8, 9, 9, 13	13.00	Dry
06/10/21	21.50	13.00	20.23		S	25.00	N43	7, 10 / 10, 10, 11, 12	13.00	Dry
06/10/21	22.50	13.00	Dry		S	26.50	N48	4, 7 / 10, 10, 14, 14	13.00	Dry
06/10/21	27.00	13.00	Dry		S	28.00	N39	5, 7 / 9, 9, 10, 11	13.00	Dry
07/10/21	27.00	13.00	Dry		S	29.50	N50	8, 8 / 10, 11, 23, 6	13.00	Dry
07/10/21	35.50	34.00	Dry		S	31.00	N41	5, 5 / 8, 9, 10, 14	13.00	Dry
08/10/21	35.50	34.00	20.30		S	32.50	N50/150	20, 5 / 28, 22	13.00	Dry
08/10/21	35.00	34.00	22.30		S	34.00	N46	5, 8 / 9, 10, 12, 15	13.00	Dry
08/10/21	37.50	34.00	22.00		S	35.50	N46	5, 9 / 9, 10, 12, 15	34.00	22.30
08/10/21	39.00	34.00	22.00		S	37.00	N47	9, 9 / 9, 13, 12, 13	34.00	22.30
11/10/21	39.00	34.00	6.30		S	38.50	N43	8, 9 / 9, 10, 10, 14	34.00	22.00
11/10/21	39.00	35.50	10.40		S	40.00	N50/165	9, 12 / 18, 23, 9	35.50	11.80
11/10/21	41.00	35.50	11.20		S	41.50	N	10, 14 / 20, 25, 5	35.50	11.20
11/10/21	42.00	40.00	12.30		S	43.00	N50/165	10, 10 / 20, 19, 11	40.00	12.60
12/10/21	42.00	40.00	6.00		S	44.50	N46/225	9, 10 / 13, 15, 18	40.00	20.00
12/10/21	42.50	40.00	10.18		S	46.00	N50/150	17, 8 / 27, 23	40.00	26.50
12/10/21	43.00	40.00	12.60		S	48.00	N50/170	10, 13 / 17, 23, 10	40.00	21.00
12/10/21	44.50	40.00	20.00							
12/10/21	47.00	40.00	27.60							
12/10/21	47.50	40.00	23.20							
13/10/21	47.50	40.00	14.60							
13/10/21	48.45	40.00	20.00							

GENERAL REMARKS

- Water seepage encountered at 3.27m depth, with no rise.
Water entering the borehole between 07/10/2021 and 08/10/2021.
- Bentonite seal inserted between 11.60m and 12.60m depth. Casing reduced to Ø200mm and borehole re-drilled.
- Water coming under Ø200mm casing, unable to seal off.

KEY**SAMPLES**

ES	- Environmental Sample (Tub, Vial, Jar)	AZCL: Assumed Zone of Core Loss
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

GMP	- Gas monitoring point	IP	- Inspection Pit, TP-Trial Pit TT - Trial Trench
GWMP	- Groundwater monitoring point	CP	- Cable Percussion, RC-Rotary Coring, R/S-Rotary/Sonic
SPIE	- Standpipe piezometer	DS	- Dynamic Sampling, DS/R-Dynamic Sampling / Rotary
EPIE	- Electronic Piezometer	DC	- Diamond Coring, C/P-R-Cable Percussion Rotary follow on
SP	- Standpipe		

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

Issue: FINAL

CHD: AN

APRV: OS

Log Print Date & Time:

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Sheet 1 of 5

Report ID: CONCEPT-CABLE PERCUSSION BOREHOLE || Project: 213600 - L4 COLT DCS DATA CENTRE.GPJ || Library: CONCEPT LIBRARY - 2022.GLB || Date: 7 February 2022

Log Scale: 11 m per page

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 04/10/21
Date Completed 13/10/21

Ground Level (mOD)
29.60

Co-Ordinates
E 511514.83 N 180265.33

Final Depth
48.45m

Client
HDCI Hayes London Limited

Method
Cable Percussion

Sheet
2 of 5

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
05/10/21	13.00	Wet					11.00-11.00	D27			
							11.50-12.00	B28			
							12.50		N15	3, 3 / 3, 4, 4, 4	
			17.00		12.60		12.50-12.50	D29			
							12.60-12.60	D30			
			16.70		12.90	Stiff to very stiff, brown slightly micaceous silty CLAY. (THAMES GROUP: WEATHERED LONDON CLAY)	12.90-12.90	D31			
							13.00			VOC 0ppm	
							13.00-13.45	UT32	56 blows	100% Recovery	
							13.00	ES33			
							13.50-13.95	U34	60 blows	100% Recovery	
05/10/21	13.00	8.20				Stiff to very stiff, fissured brownish grey micaceous silty CLAY. (THAMES GROUP: LONDON CLAY FORMATION - B)	13.50-13.50	D35			
					(2.10)		14.00		N27	4, 4 / 5, 6, 8, 8	
							14.00-14.45	D36			
							14.50-14.95	UT37	53 blows	100% Recovery	
			14.60		15.00		15.00-15.45	U38	65 blows	78% Recovery	
						Stiff, brownish grey slightly sandy CLAY with occasional pockets of fine sand. (THAMES GROUP: LONDON CLAY FORMATION - B)	15.00-15.00	D39			
							15.50		N28	5, 5 / 5, 7, 8, 8	
							15.50-15.50	D40			
							15.50-15.95	D41			
							16.00-16.45	UT42	60 blows	100% Recovery	
05/10/21	13.00	9.90					16.50-16.95	U43	60 blows	100% Recovery	
					(3.50)		16.50-16.50	D44			
							17.00		N50/80mm	25 / 37, 13	
							17.00-17.00	D45			
							17.00-17.45	D46			
							17.20-17.20	D47			
						17.20 - 17.30 ... with a band of claystone	17.50-18.00	B48			
							18.00-18.45	UT49	60 blows	100% Recovery	
							18.50-18.95	U50	60 blows	100% Recovery	
			11.10		18.50		18.50-18.50	D51			
06/10/21	13.00	18.32				Very stiff, fissured brownish grey slightly micaceous silty CLAY with rare white flecks and bioturbation. (THAMES GROUP: LONDON CLAY FORMATION - A3ii)	19.00		N21	4, 4 / 5, 5, 5, 6	
							19.00-19.45	D52			
							19.50-19.95	UT53	60 blows	100% Recovery	
							20.00-20.45	U54	65 blows	67% Recovery	
							20.00-20.00	D55			
							20.50		N43	5, 5 / 9, 10, 12, 12	
							20.50-20.50	D56			
							20.50-20.95	D57			
							21.00-21.45	UT58	60 blows	78% Recovery	
							21.50-21.95	U59	70 blows	100% Recovery	
06/10/21	13.00	20.23					21.50-21.50	D60			
							22.00		N35	4, 5 / 8, 8, 9, 10	

Issue: FINAL

Logger: TP/ CS

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:15

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 04/10/21
Date Completed 13/10/21

Ground Level (mOD)
29.60

Co-Ordinates
E 511514.83 N 180265.33

Final Depth
48.45m

Client
HDCI Hayes London Limited

Method
Cable Percussion

Sheet
3 of 5

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
06/10/21	13.00	Dry					22.00-22.00 22.00-22.45 22.50-22.95	D61 D62 UT63	53 blows	100% Recovery	
							23.00-23.45 23.00-23.00	U64 D65	60 blows	100% Recovery	
						23.00 ... with 1 No brown shell fragment (<3mm)	23.50 23.50-23.50 23.50-23.95	D66 D67	N39	4, 6 / 8, 9, 9, 13	
					(11.00)		24.00-24.45	UT68	50 blows	100% Recovery	
						24.50 ... with rare to occasional partings of fine sand	24.50-24.95 24.50-24.50	U69 D70	65 blows	78% Recovery	
						25.00 ... with 1No pyrite nodule	25.00 25.00-25.00 25.00-25.45	D71 D72	N43	7, 10 / 10, 10, 11, 12	
							25.50-25.95	UT73	60 blows	100% Recovery	
							26.00-26.45 26.00-26.00	U74 D75	68 blows	100% Recovery	
						26.50 ... with rare white shell fragments	26.50 26.50-26.50 26.50-26.95	D76 D77	N48	4, 7 / 10, 10, 14, 14	
06/10/21	13.00	Dry					27.00-27.45	UT78	58 blows	100% Recovery	
07/10/21	13.00	Dry					27.50-27.95 27.50-27.50	U79 D80	60 blows	67% Recovery	
						28.00 ... with partings of fine sand	28.00 28.00-28.00 28.00-28.45	D81 D82	N39	5, 7 / 9, 9, 10, 11	
							28.50-28.95	UT83	60 blows	89% Recovery	
						29.00 ... with partings of fine sand	29.00-29.45 29.00-29.00	U84 D85	78 blows	78% Recovery	
			0.10		29.50		29.50		N50	8, 8 / 10, 11, 23, 6	
						Very stiff, fissured dark greyish brown slightly micaceous CLAY with rare white flecks and bioturbation. (THAMES GROUP: LONDON CLAY FORMATION - A3i)	29.50-29.50 29.50-29.95	D86 D87			
						30.50 ... with lenses of fine sand (<15mm)	30.00-30.45	UT88	76 blows	100% Recovery	
							30.50-30.95 30.50-30.50	U89 D90	75 blows	78% Recovery	
					(3.00)		31.00		N41	5, 5 / 8, 9, 10, 14	
						31.00 ... with partings of fine sand and 1No shell fragment	31.00-31.00 31.00-31.45	D91 D92			
							31.50-31.95	UT93	70 blows	100% Recovery	
							32.00-32.45 32.00-32.00	U94 D95	100 blows	44% Recovery	
			-2.90		32.50		32.50		N50/150mm	20, 5 / 28, 22	
						Very stiff, fissured dark greyish brown slightly sandy CLAY. (THAMES GROUP: LONDON CLAY	32.50-32.50 32.50-32.95 32.60-32.60	D96 D97 D98			
							33.00-33.45	UT99	80 blows	89% Recovery	

Issue: FINAL

Logger: TP/ CS

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:15

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 04/10/21
Date Completed 13/10/21

Ground Level (mOD)
29.60

Co-Ordinates
E 511514.83 N 180265.33

Final Depth
48.45m

Client
HDCI Hayes London Limited

Method
Cable Percussion

Sheet
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PROGRESS			STRATA				SAMPLES & TESTS				Field Records	Instrument Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result			
08/10/21	34.00	22.30				FORMATION - A2) 32.50 - 33.00 ... with a band of claystone	33.50-33.95 33.50-33.50	U100 D101	80 blows	100% Recovery		
						34.00 ... with partings of fine sand	34.00 34.00-34.00 34.00-34.45	D102 D103	N46	5, 8 / 9, 10, 12, 15		
							34.50-34.95	UT104	80 blows	100% Recovery		
							35.00 ... with rare white flecks	35.00-35.45 35.00-35.00	U105 D106	90 blows	89% Recovery	
07/10/21 08/10/21	34.00 34.00	Dry 20.30				35.50 35.50-35.95		D107	N46	5, 9 / 9, 10, 12, 15		
						36.00-36.45		UT108	90 blows	100% Recovery		
						36.50 ... with lenses of fine sand (<15mm) and 1No pyrite nodule	36.50-36.95 36.50-36.50	U109 D110	100 blows	56% Recovery		
							37.00 37.00-37.45	D111	N47	9, 9 / 9, 13, 12, 13		
08/10/21	34.00	22.00					37.50-37.95	UT112	100 blows	78% Recovery		
						38.00 ... with pockets of grey fine sand (<5mm)	38.00-38.45 38.00-38.00	U113 D114	110 blows	67% Recovery		
							38.50 38.50-38.50 38.50-38.95	D115 D116	N43	8, 9 / 9, 10, 10, 14		
							38.50 ... with pockets of white fine sand (<1mm)	39.00-39.45	UT117	120 blows	67% Recovery	
						39.50-39.95		U118	125 blows	56% Recovery		
						40.00 ... with occasional partings fine sand		40.00 40.00-40.00 40.00-40.45	D119 D120	N50/165mm	9, 12 / 18, 23, 9	
							40.50-40.95	UT121	100 blows	100% Recovery		
							11/10/21	35.50	11.20			
41.50 41.50-41.95	D124		10, 14 / 20, 25, 5									
42.00-42.45	U125	100 blows	67% Recovery									
12/10/21	40.00	10.18				42.50-42.95 42.50-42.50						
						12/10/21	40.00	12.60				43.00 43.00-43.45
43.50-43.95	UT129	100 blows	78% Recovery									
44.00-44.45	U130	120 blows	44% Recovery									

Issue: FINAL

Logger: TP/ CS

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:15

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 04/10/21
Date Completed 13/10/21

Ground Level (mOD)
29.60

Co-Ordinates
E 511514.83 N 180265.33

Final Depth
48.45m

Client

HDCI Hayes London Limited

Method

Cable Percussion

Sheet
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PROGRESS

STRATA

SAMPLES & TESTS

Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result	Field Records	Instrument Backfill
12/10/21	40.00	20.00				44.00 ... with rare white flecks	44.00-44.00	D131			
							44.50		N46/225mm	9, 10 / 13, 15, 18	
							44.50-44.95	D132			
			-15.40		45.00		45.00-45.45	UT133	120 blows	67% Recovery	
						Very stiff, drak grey slightly sandy CLAY. (THAMES GROUP: HARWICH FORMATION: Swanscombe Member)	45.50-45.95	U134	125 blows	0% Recovery	
						45.50 ... becoming slightly gravelly with grey shell fragments. Gravel is rounded medium to coarse black flint	45.50-45.50	D135			
					(2.20)	46.00 ... with light grey sandstone fragments	46.00		N50/150mm	17, 8 / 27, 23	
							46.00-46.45	D136			
12/10/21	40.00	27.60					47.00-47.46	UT137	125 blows	100% Recovery	
			-17.60		47.20						
12/10/21	40.00	23.20				Very stiff, grey mottled yellow thinly laminated CLAY. (LAMBETH GROUP: READING FORMATION: Upper Mottled Beds)	47.50-47.95	U138	100 blows	56% Recovery	
13/10/21	40.00	14.60			(1.25)		47.50-47.50	D139			
						48.00 - 48.45 ... becoming mottled yellow, light grey and red	48.00		N50/170mm	10, 13 / 17, 23, 10	
							48.00-48.45	D140			
13/10/21	40.00	20.00	-18.85		48.45	End of Borehole					

Issue: FINAL

Logger: TP/ CS

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 18:15

SPT Hammer Energy Test Report

in accordance with BSEN ISO 22476-3:2005

Southern Testing
Unit 11
Charlwood Road
East Grinstead
West Sussex
RH19 2HU

SPT Hammer Ref: EQU040
Test Date: 16/04/2021
Report Date: 16/04/2021
File Name: EQU040.spt
Test Operator: STU

Instrumented Rod Data

Diameter d_r (mm): 54
Wall Thickness t_r (mm): 6.3
Assumed Modulus E_a (GPa): 208
Accelerometer No.1: 6458
Accelerometer No.2: 9607

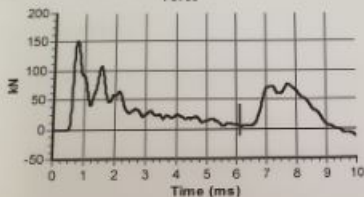
SPT Hammer Information

Hammer Mass m (kg): 63.5
Falling Height h (mm): 760
SPT String Length L (m): 14.5

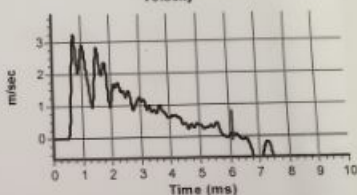
Comments / Location

Charlwoods

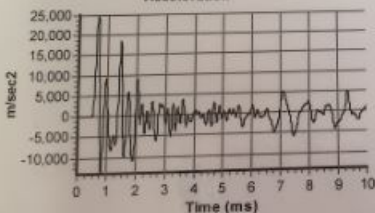
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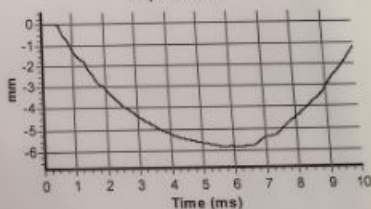
Velocity



Acceleration



Displacement



Calculations

Area of Rod A (mm²): 944
Theoretical Energy E_{theor} (J): 473
Measured Energy E_{meas} (J): 316

Energy Ratio E_r (%): **67**

Signed: S Simmonds

Title: Field Operations Tech

The recommended calibration interval is 12 months

SPT Hammer Energy Test Report

in accordance with BSEN ISO 22476-3:2005

ARCHWAY ENGINEERING (UK) LTD
AINLEYS INDUSTRIAL ESTATE
ELLAND
WEST YORKSHIRE
HX5 9JP

SPT Hammer Ref: AR3552
Test Date: 10/03/2021
Report Date: 10/03/2021
File Name: AR3552.spt
Test Operator: JL

Instrumented Rod Data

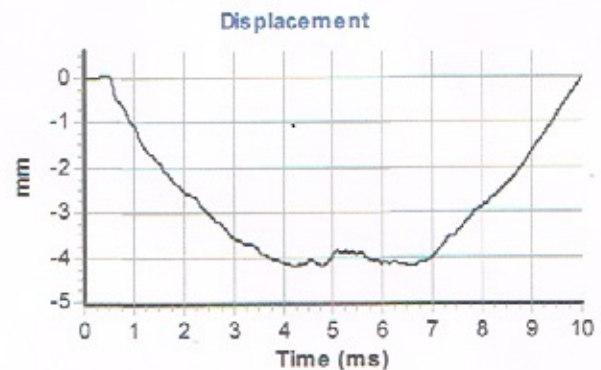
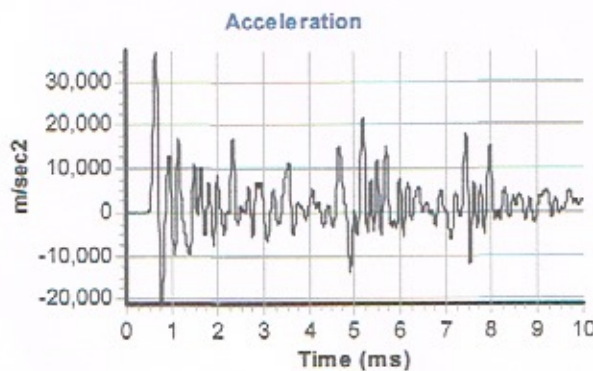
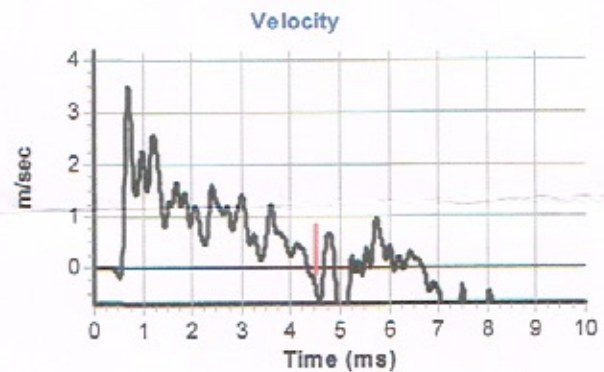
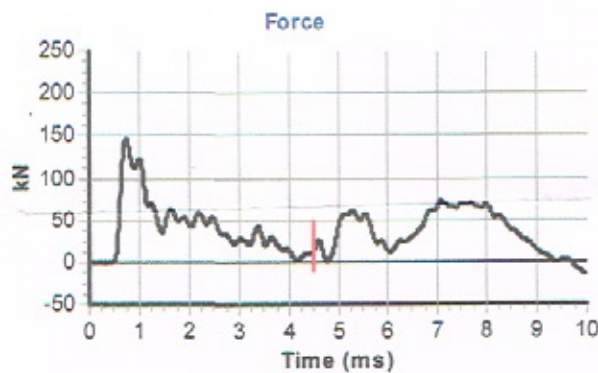
Diameter d_r (mm): 54
Wall Thickness t_r (mm): 6.3
Assumed Modulus E_a (GPa): 208
Accelerometer No.1: 7080
Accelerometer No.2: 11609

SPT Hammer Information

Hammer Mass m (kg): 63.5
Falling Height h (mm): 760
SPT String Length L (m): 10.0

Comments / Location

DJ DRILLING LTD / AR3552



Calculations

Area of Rod A (mm²): 944
Theoretical Energy E_{theor} (J): 473
Measured Energy E_{meas} (J): 326

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

Signed: C. McCLUSKEY
Title: FITTER

The recommended calibration interval is 12 months

SPT Hammer Energy Test Report

in accordance with BS EN ISO 22476-3:2005

Southern Testing
Unit 11
Charlwood Road
East Grinstead
West Sussex
RH19 2HU

SPT Hammer Ref: AR779
Test Date: 28/06/2021
Report Date: 28/06/2021
File Name: AR779.spt
Test Operator: NPB

Instrumented Rod Data

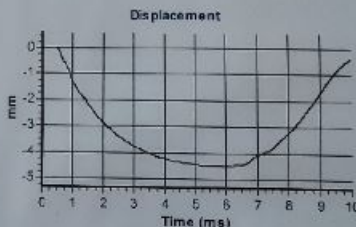
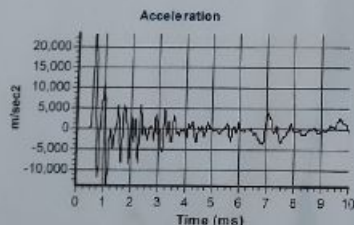
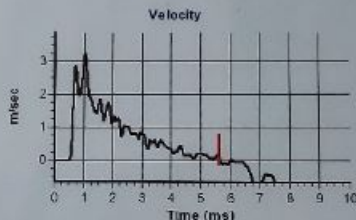
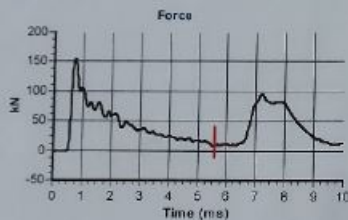
Diameter d_r (mm): 54
Wall Thickness t_r (mm): 6.6
Assumed Modulus E_B (GPa): 208
Accelerometer No.1: 64786
Accelerometer No.2: 64789

SPT Hammer Information

Hammer Mass m (kg): 63.5
Falling Height h (mm): 760
SPT String Length L (m): 14.5

Comments / Location

CHARLWOODS



Calculations

Area of Rod A (mm^2): 983
Theoretical Energy E_{theor} (J): 473
Measured Energy E_{meas} (J): 340

Energy Ratio E_r (%): **72**

Signed: N P Burrows
Title: Field Operations Manager

The recommended calibration interval is 12 months

9. DYNAMIC BOREHOLE LOGS

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 09/08/21
Date Completed 12/08/21

Ground Level (mOD)
29.79

Co-Ordinates
E 511483.49 N 180235.93

Final Depth
3.00m

Client

HDCI Hayes London Limited

Plant Used
Dynamic Sampling

Sheet
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	
09/08/21		Dry	29.59		0.20	Reinforced grey CONCRETE.	0.20-0.40	B1		
			29.39		0.40	Reddish brown gravelly silty fine to coarse SAND with low brick cobble content. Gravel comprises angular to subangular fine to coarse brick and concrete fragments.	0.30 0.30 0.40-0.60	ES2 B3 B4	VOC 0ppm	
			29.19		0.60	(MADE GROUND)	0.60-1.20			
					(0.80)	Soft to firm, dark brown slightly gravelly sandy SILT. Gravel is angular fine to coarse flint.	1.00 1.00	ES5	VOC 0ppm	
09/08/21 12/08/21	Dry Dry		28.39		1.40	Firm, reddish brown slightly sandy CLAY.	1.40-2.40	B6		
					(1.60)	(LANGLEY SILT MEMBER)				
						Very dense, orangish brown gravelly fine to coarse SAND. Gravel is angular to subrounded fine to coarse flint.	2.00 2.00 2.00	ES7	N50/210mm 5, 12 / 13, 15, 22 VOC 0ppm	
						(LYNCH HILL GRAVEL MEMBER)				
							2.70		... Borehole collapsing to 2.70m depth	
12/08/21	2.00	Dry	26.79		3.00	End of Borehole	3.00		... Borehole aborted at 3.00m depth (see Remarks)	

DYNAMIC SAMPLING RECOVERY				Recovery (%)	GENERAL REMARKS
From	To	Diameter (mm)			
1.20	2.00	87			1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing. 2. Ø110mm casing used from ground level to 2.00m depth. 3. Borehole collapsing to 2.70m depth. Borehole aborted. 4. Ø50mm gas and groundwater monitoring pipe installed at 1.40m, slotted between 0.40m and 1.40m depth. 5. Borehole backfilled with soil arisings between 3.00m and 2.70m, bentonite pellets between 2.70m and 1.40m, pea shingle between 1.40m and 0.40m and bentonite pellets between 0.40m and 0.20m depth. Concrete with a stopcock cover installed from 0.20m to ground level. 6. SPT Hammer: DJD MK1
2.00	3.00	87			

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL	Driller: DN	Logger: FT	CHD: AN	APRV: OS	Log Print Date & Time: 07/02/2022 17:51	AGS
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Log Scale: 5 m per page

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 24/08/21
Date Completed 24/08/21

Ground Level (mOD)
29.64

Co-Ordinates
E 511516.97 N 180264.71

Final Depth
3.00m

Client

HDCI Hayes London Limited

Plant Used
Dynamic Sampling

Sheet
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		
24/08/21		Dry	29.49		0.15	Reinforced CONCRETE with Ø5mm rebar.	0.20-0.40	B1		VOC 0ppm	
			29.44		0.20		0.30	ES2			
24/08/21		Dry			(0.70)	Black sandy silty GRAVEL. Gravel comprises angular fine ash and clinker fragments. Sand is fine to coarse. (MADE GROUND)	0.50-0.80	B3		VOC 0ppm	
							0.60	ES4			
			28.74		0.90		0.90-1.10	B5			
					(0.35)		1.20	B6	N61		
24/08/21		Dry	28.39		1.25	Brown sandy very gravelly SILT with rootlets. Gravel comprises angular fine to coarse brick, clinker, ceramic and concrete fragments. Sand is fine to coarse. (MADE GROUND)	1.25-1.70	ES7		3, 11 / 11, 15, 15, 20	
							1.40				
					(1.55)		1.80	ES8			
							1.80	B9	N43		
24/08/21		Dry				Soft, brown slightly gravelly slightly sandy SILT. Gravel is angular to subangular fine to medium flint. Sand is fine to coarse. (LANGLEY SILT MEMBER)	1.80-2.80			VOC 0ppm	
			26.84		2.80		2.00				
			26.64		3.00		3.00				
						Dense to very dense, orangish brown fine to coarse SAND and angular to subangular fine to coarse flint GRAVEL. (LYNCH HILL GRAVEL MEMBER)			N50/250mm	2, 3 / 7, 16, 20, 7 ... Borehole aborted at 3.00m depth (see Remarks)	
						End of Borehole					

DYNAMIC SAMPLING RECOVERY

From	To	Diameter (mm)	Recovery (%)
1.20	2.00	87	90
2.00	3.00	87	90

GENERAL REMARKS

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Borehole aborted at 3.00m depth due to collapsing.
3. Borehole backfilled with bentonite pellets upon completion.
4. SPT Hammer: DJD MK1

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL

Driller: DN

Logger: TP

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 17:51

WAGS

Log Scale: 5 m per page

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 29/09/21
Date Completed 29/09/21

Ground Level (mOD)
29.02

Co-Ordinates
E 511533.28 N 180226.84

Final Depth
2.00m

Client

HDCI Hayes London Limited

Plant Used

Dynamic Sampling

Sheet

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		
29/09/21		Dry	28.82		0.20	CONCRETE slab (0.05m) over yellow fine SAND with rootlets. (MADE GROUND)	0.20-0.50	B1		VOC 0ppm	
					(0.70)	Brown gravelly clayey fine to coarse SAND. Gravel comprises angular to rounded fine to coarse flint, concrete, brick, limestone, metal and plastic fragments. (MADE GROUND)	0.30 0.30 0.60-0.80	ES2 B3			
29/09/21		Dry	28.12		0.90	Brown slightly sandy gravelly CLAY. Gravel is subangular to subrounded fine to coarse flint. Sand is fine to coarse. (LANGLEY SILT MEMBER)	1.00 1.00 1.00-1.20	ES4 B5		VOC 0ppm	
			27.62		1.40	Orangish brown clayey angular to subrounded fine to coarse flint GRAVEL and fine to coarse SAND. (LYNCH HILL GRAVEL MEMBER)					
29/09/21	2.00	Dry	27.02		2.00	End of Borehole	2.00 2.00 2.00 2.10	ES6	N50/185mm	18, 7 / 19, 20, 11 VOC 0ppm ... Borehole aborted at 2.00m depth (see Remarks)	

DYNAMIC SAMPLING RECOVERY				GENERAL REMARKS
From	To	Diameter (mm)	Recovery (%)	
1.20	2.00	87	94	

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø110mm casing used from ground level to 2.00m depth.
3. Borehole aborted at 2.00m depth due to refusal.
4. Borehole backfilled with bentonite pellets upon completion.
5. SPT Hammer: MOD04

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL	Driller: DN	Logger: TP	CHD: AN	APRV: OS	Log Print Date & Time: 07/02/2022 17:51	
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Log Scale: 5 m per page

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 24/08/21
Date Completed 24/08/21

Ground Level (mOD)
28.91

Co-Ordinates
E 511517.48 N 180213.36

Final Depth
1.60m

Client
HDCI Hayes London Limited

Plant Used
Dynamic Sampling

Sheet
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		
24/08/21		Dry	28.71		0.20	Asphalt. (MADE GROUND)					
						Yellowish brown silty fine to coarse SAND and GRAVEL. Gravel comprises angular fine to coarse flint, brick and ceramic fragments. (MADE GROUND)	0.30 0.30 0.30 0.50 0.60 0.60 0.65 0.90-1.20	ES1 B2 B3 ES4 B5		VOC 0ppm VOC 0ppm ... Ø100mm clay pipe encountered in the eastern side of the pit between 0.55m-0.65m depth 6, 8 / 15, 19, 16	
24/08/21		Dry	27.71		1.20		1.20 1.20-1.60	B6	N50/205mm		
						Dense to very dense, orangish brown gravelly fine to coarse SAND. Gravel is angular to subangular fine to coarse flint. (LYNCH HILL GRAVEL MEMBER)	1.50 1.50 1.60 1.60	ES7	N50/170mm	VOC 0.1ppm 18, 7 / 22, 22, 6 ... Borehole aborted at 1.60m depth (see Remarks)	
24/08/21		Dry	27.31		1.60	End of Borehole					

DYNAMIC SAMPLING RECOVERY				GENERAL REMARKS
From	To	Diameter (mm)	Recovery (%)	
1.20	1.60	87	100	

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Borehole aborted at 1.60m depth due to refusal.
3. Ø50mm gas and groundwater monitoring pipe installed at 1.20m, slotted between 0.50m and 1.20m depth.
4. Borehole backfilled with bentonite pellets between 1.60m and 1.20m, pea shingle between 1.20m and 0.50m and bentonite pellets between 0.50m and 0.20m depth. Concrete with a stopcock cover installed from 0.20m to ground level.
5. SPT Hammer: DJD MK1

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL	Driller: DN	Logger: TP	CHD: AN	APRV: OS	Log Print Date & Time: 07/02/2022 17:51	AGS
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Project

L4 Colt DCS Data Centre

Job No

21/3600

Date Started

26/08/21

Date Completed

26/08/21

Ground Level (mOD)

28.86

Co-Ordinates

E 511585.38 N 180150.73

Final Depth

0.70m

Client

HDCI Hayes London Limited

Plant Used

Dynamic Sampling

Sheet

1 of 1

STRATA

SAMPLES & TESTS

Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth	Type No	Test Result	Field Records
	28.82		0.04	Grey angular coarse limestone GRAVEL. (Type 1) (MADE GROUND)				
			(0.66)	Dense, greyish brown very gravelly silty fine to medium SAND with frequent roots and rootlets. Gravel comprises angular to subrounded fine to coarse flint, brick, concrete and plastic fragments. (MADE GROUND)	0.30	ES1		VOC 0.4ppm
					0.30	B2		
					0.30			
					0.50			
	28.16		0.70	0.04 ... with black membrane	0.50	ES3		VOC 0ppm
	28.16		0.70	CONCRETE.	0.50	B4		
				End of Trial Pit	0.70			... Pit aborted at 0.70m depth (see Remarks)

GENERAL REMARKS

1. An inspection pit was hand excavated prior to borehole commencing.
2. Pit aborted at 0.70m depth due to presence of concrete obstruction. Location moved to position WS205A.
3. Pit backfilled with soil arisings and made good upon completion

Issue: FINAL

Driller: DJ

Logger: JKH

CHD: AN

APRV: OS

Log Print Date & Time:

07/02/2022 17:50



Log Scale: 5 m per page

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 29/09/21
Date Completed 29/09/21

Ground Level (mOD)
28.95

Co-Ordinates
E 511587.03 N 180157.88

Final Depth
4.00m

Client

HDCI Hayes London Limited

Plant Used

Hand Excavated

Sheet

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		
29/09/21		Dry	28.91		0.04	Grey angular coarse limestone GRAVEL (Type 1) (MADE GROUND)	0.20 0.20 0.20	ES1 B2		VOC 0ppm	
					(1.16)	Greyish brown very gravelly silty fine to medium SAND with frequent roots and rootlets. Gravel comprises angular to subrounded fine to coarse flint, brick, concrete and plastic fragments. (MADE GROUND)	0.60 0.60 0.60	ES3 D4		VOC 0ppm	
							1.00 1.00	ES5		VOC 0ppm	
29/09/21		Dry	27.75		1.20	Orangish brown gravelly slightly silty medium SAND. Gravel comprises angular to rounded fine to coarse flint and limestone fragments. (MADE GROUND)					
					(0.55)						
			27.20		1.75	Firm to stiff, grey slightly sandy gravelly CLAY with roots. Gravel is subrounded to rounded fine to medium flint. (LANGLEY SILT MEMBER)	2.00 2.00 2.00	ES6	N9	2, 4 / 2, 2, 3 VOC 0ppm	
					(0.60)						
			26.60		2.35	Loose, light yellowish grey angular to subangular fine to coarse fine to coarse GRAVEL and fine to coarse SAND. (LYNCH HILL GRAVEL MEMBER)					
					(1.05)		3.00 3.00 3.00	ES7	N16	9, 10 / 8, 5, 2, 1 VOC 0ppm	
			25.55		3.40	Firm to stiff, brown CLAY. (THAMES GROUP: WEATHERED LONDON CLAY)	3.60 3.60	ES8		VOC 0ppm	
					(0.60)						
29/09/21	3.00	2.80	24.95		4.00	End of Borehole	4.00 4.00		N9	2, 1 / 2, 2, 2, 3 ... Borehole aborted at 4.00m depth (see Remarks)	

DYNAMIC SAMPLING RECOVERY				GENERAL REMARKS
From	To	Diameter (mm)	Recovery (%)	
1.20	2.00	87	100	
2.00	3.00	87	85	
3.00	4.00	77	100	
				1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing. 2. Ø110mm casing used from ground level to 3.00m depth. 3. Borehole collapsing between 3.00 and 4.00m depth. Borehole aborted. 4. Water level at 2.80m depth upon borehole completion. 5. Ø50mm gas and groundwater monitoring pipe installed at 3.00m, slotted between 2.40m and 3.00m depth. 6. Borehole backfilled with soil arisings between 4.00m and 3.00m, pea shingle between 3.00m and 2.40m and bentonite pellets between 2.40m and 0.20m depth. Concrete with a stopcock cover installed from 0.20m to ground level. 7. SPT Hammer: MOD04.

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL	Driller: DN	Logger: TP	CHD: AN	APRV: OS	Log Print Date & Time: 07/02/2022 17:51	AGS
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Log Scale: 5 m per page

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 24/08/21
Date Completed 24/08/21

Ground Level (mOD)
28.98

Co-Ordinates
E 511549.77 N 180141.08

Final Depth
4.00m

Client
HDCI Hayes London Limited

Plant Used
Dynamic Sampling

Sheet
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		
24/08/21		Dry	28.88		0.10	Asphalt.					
			28.78		0.20	(MADE GROUND)	0.20			VOC 0ppm	
						Brown sandy silty GRAVEL. Gravel comprises angular fine to coarse mixed lithologies. Sand is fine to coarse.	0.20	ES1			
						(MADE GROUND)	0.20	B2			
							0.20-0.50	B3			
					(0.70)		0.60			VOC 0ppm	
							0.60	ES4			
			28.08		0.90	Yellowish brown silty fine to coarse SAND and GRAVEL. Gravel comprises angular fine to coarse flint, brick, concrete and ceramic fragments, and whole bricks.	0.90-1.10	B5			
			27.78		1.20	(MADE GROUND)	1.20		N1	1, 0 / 0, 0, 1, 0	
			27.63		1.35	0.60 ... with cement board fragments with suspected ACM	1.20-1.35	B6			
24/08/21		Dry				Soft, brown very gravelly CLAY. Gravel comprises angular fine to coarse flint, brick and ceramic fragments.	1.40-2.00	B7		VOC 0ppm	
					(0.65)	(MADE GROUND)	1.50	ES8			
						Dark brown gravelly silty fine to coarse SAND. Gravel is fine to medium flint.	1.50				
			26.98		2.00	(MADE GROUND)	2.00	B10	N30	2, 4 / 6, 6, 9, 9	
						Soft, brown silty CLAY.	2.00-2.80	D9		VOC 0ppm	
					(0.80)	(LANGLEY SILT MEMBER)	2.00-2.45				
						Greyish brown silty fine to coarse SAND and angular to subrounded fine to coarse flint GRAVEL.	2.20	ES11			
						(LYNCH HILL GRAVEL MEMBER)	2.20			... Borehole collapsing to 2.60m depth	
			26.18		2.80		2.60	B12			
						Firm, brown silty CLAY.	2.80-4.00		N6	1, 1 / 1, 1, 2, 2	
24/08/21		Dry				(THAMES GROUP: WEATHERED LONDON CLAY)	3.00	D13			
			24.98		4.00		3.00				
						End of Borehole					

DYNAMIC SAMPLING RECOVERY				GENERAL REMARKS
From	To	Diameter (mm)	Recovery (%)	
1.20	2.00	87	90	
2.00	3.00	87	90	
3.00	4.00	87	90	

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Borehole collapsing to 2.60m depth.
3. Ø50mm gas and groundwater monitoring pipe installed at 2.00m, slotted between 0.50m and 2.00m depth.
4. Borehole backfilled with soil arisings between 4.00m and 2.60m, bentonite pellets between 2.60m and 2.00m, pea shingle between 2.00m and 0.50m and bentonite pellets between 0.50m and 0.20m depth. Concrete with a stopcock cover installed from 0.20m to ground level.
5. SPT Hammer: DJD MK1

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL	Driller: DN	Logger: TP	CHD: AN	APRV: OS	Log Print Date & Time: 07/02/2022 17:51	AGS
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Log Scale: 5 m per page

Project

L4 Colt DCS Data Centre

Job No

21/3600

Date Started

24/08/21

Date Completed

24/08/21

Ground Level (mOD)

28.83

Co-Ordinates

E 511542.45 N 180125.26

Final Depth

1.00m

Client

HDCI Hayes London Limited

Plant Used

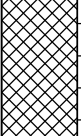
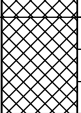
Hand Excavated

Sheet

1 of 1

STRATA

SAMPLES & TESTS

Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth	Type No	Test Result	Field Records
	28.63		(0.20) 0.20	Asphalt. (MADE GROUND)	0.20-0.50	B1		
			(0.50)	Brownish grey sandy silty GRAVEL. Gravel comprises subangular to subrounded fine to coarse concrete and brick fragments. Sand is fine to coarse. (MADE GROUND)	0.50 0.50	ES2		VOC 0ppm
	28.13		0.70 (0.30)	Yellow medium to coarse SAND. (MADE GROUND)	0.70 0.70-1.00	B3		... Ø100mm fibre ducts and Ø250mm electric cables encountered at 0.70m depth
	27.83		1.00		1.00			... Pit aborted at 1.00m depth (see Remarks)
				End of Trial Pit				

GENERAL REMARKS

1. An inspection pit was hand excavated prior to borehole commencing.
2. Pit aborted at 1.00m depth due to presence of services. Location moved to position WS207A.
3. Pit backfilled with soil arisings and made good upon completion

Issue: FINAL

Driller: DJ

Logger: TP

CHD: AN

APRV: OS

Log Print Date & Time:

07/02/2022 17:50

Project

L4 Colt DCS Data Centre

Job No

21/3600

Date Started

24/08/21

Date Completed

24/08/21

Ground Level (mOD)

28.78

Co-Ordinates

E 511543.55 N 180130.20

Final Depth

0.60m

Client

HDCI Hayes London Limited

Plant Used

Hand Excavated

Sheet

1 of 1

STRATA

SAMPLES & TESTS

Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth	Type No	Test Result	Field Records
				Asphalt. (MADE GROUND)				
	28.43		0.35					
			(0.25)	Light brown fine to coarse SAND and GRAVEL. Gravel comprises angular fine to coarse flint, brick, clinker and sandstone fragments. (MADE GROUND)	0.40-0.60	B1		
	28.18		0.60		0.50			
	28.18		0.60	Grey CONCRETE. End of Trial Pit	0.50	ES2		
					0.60			

VOC 0ppm
... Pit aborted at 0.60m depth (see Remarks)

GENERAL REMARKS

1. An inspection pit was hand excavated prior to borehole commencing.
2. Pit aborted at 0.60m depth due to presence of concrete obstruction. Location moved to position WS207B.
3. Pit backfilled with soil arisings and made good upon completion

Issue: FINAL

Driller: DJ

Logger: TP

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 17:50



Log Scale: 4 m per page

Project

L4 Colt DCS Data Centre

Job No

21/3600

Date Started

24/08/21

Date Completed

24/08/21

Ground Level (mOD)

28.71

Co-Ordinates

E 511547.35 N 180129.60

Final Depth

0.60m

Client

HDCI Hayes London Limited

Plant Used

Hand Excavated

Sheet

1 of 1

STRATA

SAMPLES & TESTS

Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth	Type No	Test Result	Field Records
				Asphalt. (MADE GROUND)				
	28.36		0.35					
	28.11		0.60	Brown gravelly silty fine to coarse SAND. Gravel comprises angular fine to coarse flint, brick and concrete fragments. (MADE GROUND)	0.60			
	28.11		0.60	CONCRETE and brickwork. (MADE GROUND) End of Trial Pit				... Pit aborted at 0.60m depth (see Remarks)

GENERAL REMARKS

1. An inspection pit was hand excavated prior to borehole commencing.
2. Pit aborted at 0.60m depth due to presence of concrete/brick possible foundation obstruction.
3. Pit backfilled with soil arisings and made good upon completion

Issue: FINAL

Driller: DJ

Logger: TP

CHD: AN

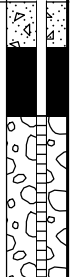
APRV: OS

Log Print Date & Time:

07/02/2022 17:50

Project
L4 Colt DCS Data Centre

Job No 21/3600	Date Started 27/09/21	Ground Level (mOD) 28.86	Co-Ordinates E 511541.91 N 180130.64	Final Depth 6.00m
Date Completed 27/09/21				
Client HDCI Hayes London Limited	Plant Used Dynamic Sampling			Sheet 1 of 2

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/ Backfill	
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result			
27/09/21		Dry	28.80		0.06	CONCRETE.						
			28.77		0.09	Orangish brown fine to medium SAND. (MADE GROUND)	0.30			VOC 0ppm		
						Brownish grey gravelly clayey silty fine to coarse SAND with occasional pockets of soft to firm, grey clay (<150mm). Gravel comprises angular subrounded fine to coarse flint, brick and concrete fragments. (MADE GROUND)	0.30	ES1				
							0.30	B2				
							0.60			VOC 0ppm		
							0.60	ES3				
					0.60	B4						
		Dry	27.76	1.10				1.00				VOC 0ppm
			27.66	1.20	Light grey CONCRETE.	1.00-1.20	ES5					
					Firm, brown gravelly silty CLAY. Gravel is angular to subangular fine to medium flint. (MADE GROUND)	1.00-1.20	B6					
						1.50	B7					
						1.50	ES8		VOC 0ppm			
			27.01	1.85					VOC 0ppm			
	26.86	2.00	Brownish grey silty fine to coarse SAND and angular to subrounded fine to coarse flint GRAVEL. (MADE GROUND)	1.90	ES9							
				1.90			N9	1, 1 / 2, 2, 2, 3				
				2.00	B10							
				2.00-3.00			VOC 0ppm					
				2.30	ES11							
				2.30								
						3.00						
						3.00-4.00	B12	N7	1, 1 / 2, 2, 1, 2			
									VOC 0ppm			
						3.30						
						3.30	ES13					
			25.36	3.50	3.30 ... with a pocket of peat (<20mm)							
						Firm, grey CLAY. (THAMES GROUP: WEATHERED LONDON CLAY)	4.00					
							4.00	D14	N8	1, 1 / 2, 2, 2, 2		
							4.00-5.00	B15				
							4.50			VOC 0ppm		
							4.50	ES16				
			23.86		5.00		5.00		N11	2, 2 / 2, 3, 3, 3		

DYNAMIC SAMPLING RECOVERY				GENERAL REMARKS
From	To	Diameter (mm)	Recovery (%)	
1.20	2.00	87	100	1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing. 2. Ø110mm casing used from ground level to 2.00m depth. 3. Ø50mm gas and groundwater monitoring pipe installed at 1.20m, slotted between 0.50m and 1.20m depth. 4. Borehole backfilled with bentonite pellets between 6.00m and 1.20m, pea shingle between 1.20m and 0.50m and bentonite pellets between 0.50m and 0.20m depth. Concrete with a stopcock cover installed from 0.20m to ground level. 5. SPT Hammer: Geo 1
2.00	3.00	87	100	
3.00	4.00	77	100	
4.00	5.00	67	100	
5.00	6.00	57	0	

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL	Driller: DN	Logger: TP	CHD: AN	APRV: OS	Log Print Date & Time: 07/02/2022 17:51	AGS
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Log Scale: 5 m per page

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 27/09/21
Date Completed 27/09/21

Ground Level (mOD)
28.86

Co-Ordinates
E 511541.91 N 180130.64

Final Depth
6.00m

Client
HDCI Hayes London Limited

Plant Used
Dynamic Sampling

Sheet
2 of 2

PROGRESS			STRATA				SAMPLES & TESTS			Field Records	Instrument/Backfill
Date	Casing	Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth (m)	Type No	Test Result		
27/09/21	2.00	Dry	22.86		6.00	No Recovery.	5.00	D17			
					(1.00)						
						End of Borehole					

DYNAMIC SAMPLING RECOVERY				GENERAL REMARKS
From	To	Diameter (mm)	Recovery (%)	

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL Driller: DN Logger: TP CHD: AN APRV: OS Log Print Date & Time: 07/02/2022 17:51

Log Scale: 5 m per page

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 10/09/21
Date Completed 10/09/21

Ground Level (mOD)
29.16

Co-Ordinates
E 511504.32 N 180149.42

Final Depth
3.00m

Client

HDCI Hayes London Limited

Plant Used
Dynamic Sampling

Sheet
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		
10/09/21		Dry	28.96		0.20	Reinforced light grey CONCRETE with Ø8mm rebar.					
					(0.30)	Light reddish brown gravelly silty fine to medium SAND. Gravel comprises angular to subrounded fine coarse flint, brick and concrete fragments. (MADE GROUND)	0.40	ES1		VOC 0ppm	
			28.66		0.50		0.40	B2			
			28.56		0.60		0.50	ES3		VOC 0.1ppm	
						0.20 ... with visqueen sheeting	0.50	B4		VOC 0.3ppm	
						Grey very gravelly silty slightly clayey fine to medium SAND. Gravel comprises angular to subrounded fine to coarse flint, brick and concrete fragments. (MADE GROUND)	0.60	ES5			
							0.60	B6		VOC 0ppm	
10/09/21		Dry					1.00				
							1.00-1.20	ES7			
							1.00-1.20	B8			
							1.60			VOC 0ppm	
							1.60	ES9			
							2.00		N38	12, 10 / 8, 8, 10, 12	
							2.00-2.20	D10			
							2.40			VOC 0ppm	
							2.40	ES11			
10/09/21	3.00	2.50	26.16		3.00	2.57 ... becoming gravelly. Gravel is angular to subrounded fine to coarse flint	3.00		N50/135mm	17, 8 / 27, 23	
						2.80 ... becoming dense to very dense, greyish brown and very gravelly	3.00			... Borehole aborted at 3.00m depth (see Remarks)	
						End of Borehole					

DYNAMIC SAMPLING RECOVERY				GENERAL REMARKS
From	To	Diameter (mm)	Recovery (%)	
1.20	2.00	87	100	
2.00	3.00	87	100	

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø110mm casing used from ground level to 3.00m depth.
3. Borehole aborted at 3.00m depth due to refusal.
4. Water level at 2.50m upon completion.
5. Borehole backfilled with bentonite pellets upon completion.
6. SPT Hammer: DJD MK1

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL	Driller: DN	Logger: JKH	CHD: AN	APRV: OS	Log Print Date & Time: 07/02/2022 17:51	AGS
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Log Scale: 5 m per page

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 10/08/21
Date Completed 12/08/21

Ground Level (mOD)
29.81

Co-Ordinates
E 511470.12 N 180163.81

Final Depth
4.00m

Client

HDCI Hayes London Limited

Plant Used

Dynamic Sampling

Sheet

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		
10/08/21		Dry	29.66		0.15	CONCRETE.	0.15-0.40	B1			
			29.41		(0.25) 0.40	Dark brown gravelly silty fine to coarse SAND with low brick cobble content. Gravel comprises angular to subangular fine to coarse flint, brick and concrete fragments. (MADE GROUND)	0.30 0.30 0.40-1.00	ES2 B3		VOC 0ppm	
					(0.80)	0.30 ... with possible ACM fragments					
10/08/21		Dry	28.61		1.20	Reddish brown slightly gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse flint. (LYNCH HILL GRAVEL MEMBER)	1.00 1.00 1.00-1.20 1.20-1.70	ES4 B5 B6		VOC 0ppm	
12/08/21		Dry			(0.50)	1.00 ... becoming very gravelly. Gravel is angular to subrounded fine to coarse flint					
			28.11		1.70	Orangish brown sandy angular fine flint GRAVEL. Sand is fine to coarse. (LYNCH HILL GRAVEL MEMBER)	1.70-2.60	B7			
						Dense to very dense, reddish brown and yellowish brown gravelly silty fine to coarse SAND. Gravel is angular fine to coarse flint. (LYNCH HILL GRAVEL MEMBER)	2.00		N50/225mm	12, 13 / 20, 15, 15	
					(2.05)	2.60 ... becoming orangish brown and very gravelly	2.60-3.70	B8			
						3.00 ... becoming medium dense	3.00		N28	5, 7 / 7, 7, 6, 8	
							3.55			... Borehole collapsing to 3.55m depth	
			26.06		3.75		3.80 3.80 4.00	ES9		VOC 0ppm	
12/08/21	2.00	3.20	25.81		(0.25) 4.00	Medium dense, orangish brown sandy angular to subangular fine to medium flint GRAVEL. Sand is fine to coarse. (LYNCH HILL GRAVEL MEMBER)				... Borehole aborted at 4.00m depth (see Remarks)	
						End of Borehole					

DYNAMIC SAMPLING RECOVERY				GENERAL REMARKS	
From	To	Diameter (mm)	Recovery (%)		
1.20	2.00	87	95	1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing. 2. Borehole collapsing to 3.55m depth. 3. Borehole aborted at 4.00m depth due to refusal and collapsing. 4. Water level at 3.20m depth upon borehole completion. 5. Ø50mm groundwater monitoring pipe installed at 3.55m, slotted between 2.00m and 3.55m depth. 6. Borehole backfilled with soil arisings between 4.00m and 3.55m, pea shingle between 3.55m and 2.00m and bentonite pellets between 2.00m and 0.20m depth. Concrete with a stopcock cover installed from 0.20m to ground level. 7. SPT Hammer: DJD MK1	
2.00	3.00	87	95		
3.00	4.00	67	95		

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL	Driller: ST	Logger: FT	CHD: AN	APRV: OS	Log Print Date & Time: 07/02/2022 17:51	AGS
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Log Scale: 5 m per page

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 13/08/21
Date Completed 13/08/21

Ground Level (mOD)
29.78

Co-Ordinates
E 511451.84 N 180167.31

Final Depth
2.00m

Client

HDCI Hayes London Limited

Plant Used
Dynamic Sampling

Sheet
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		
13/08/21		Dry	29.70		0.08	Grey CONCRETE.	0.20-0.50	B1		VOC 18ppm	
			29.62		0.16	Brown sandy clayey angular medium limestone GRAVEL. Sand is fine to coarse. (Type 1)	0.30	ES2			
			29.28		0.50	(MADE GROUND)	0.50-0.80	B3			
						Firm, brown slightly gravelly SILT. Gravel is subangular to subrounded fine to medium flint. (LANGLEY SILT MEMBER)	0.80-1.10	B4		VOC 132ppm	
13/08/21		Dry			(0.80)	Brown gravelly very silty fine to medium SAND. Gravel is subangular to subrounded fine to medium flint. (LYNCH HILL GRAVEL MEMBER)	1.00	ES5			
			28.48		1.30	(LYNCH HILL GRAVEL MEMBER)	1.30-2.00	B6			
						Light brown gravelly silty fine to coarse SAND. Gravel is angular to subangular fine to medium flint. (LYNCH HILL GRAVEL MEMBER)					
					(0.70)						
13/08/21	2.00	Dry	27.78		2.00	End of Borehole	2.00		N50/66mm	25 / 50 ... Borehole aborted at 2.00m depth (see Remarks)	
							2.00	ES7		VOC 39ppm	
							2.00				

DYNAMIC SAMPLING RECOVERY				GENERAL REMARKS
From	To	Diameter (mm)	Recovery (%)	
1.20	2.00	87	90	

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø110mm casing used from ground level to 2.00m depth.
3. Borehole aborted at 2.00m depth due to refusal.
4. Borehole backfilled with bentonite pellets upon completion.
5. SPT Hammer: DJD MK1

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL	Driller: DN	Logger: TP	CHD: AN	APRV: OS	Log Print Date & Time: 07/02/2022 17:51	AGS
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Log Scale: 5 m per page

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 10/08/21
Date Completed 12/08/21

Ground Level (mOD)
29.74

Co-Ordinates
E 511475.00 N 180197.97

Final Depth
2.00m

Client

HDCI Hayes London Limited

Plant Used

Dynamic Sampling

Sheet

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		
10/08/21		Dry	29.54		0.20	CONCRETE.	0.20-0.35	B1			
			29.39		0.35	Dark brown gravelly fine to coarse SAND. Gravel comprises angular to subangular fine to coarse clinker and concrete fragments. (MADE GROUND)	0.30 0.30 0.35-0.70	ES2 B3		VOC 0ppm	
					(0.85)	Soft to firm, reddish brown sandy CLAY. (LANGLEY SILT MEMBER)	0.70-1.20	B4			
10/08/21		Dry	28.54		1.20	0.70 ... becoming firm slightly sandy and gravelly. Gravel is angular to subrounded fine to coarse flint	1.00 1.00	ES5		VOC 0ppm	
12/08/21		Dry			(0.80)	Medium dense, brownish orange fine to coarse SAND and subangular to subrounded fine to coarse flint GRAVEL. (LYNCH HILL GRAVEL MEMBER)					
12/08/21	2.00	Dry	27.74		2.00	End of Borehole	2.00 2.00		N50/110mm	20, 5 / 30, 20 ... Borehole aborted at 2.00m depth (see Remarks)	
							2.00	D6			

DYNAMIC SAMPLING RECOVERY				GENERAL REMARKS
From	To	Diameter (mm)	Recovery (%)	
1.20	2.00	87	100	

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø110mm casing used from ground level to 2.00m depth.
3. Borehole aborted at 2.00m depth due to refusal.
4. Borehole backfilled with bentonite pellets upon completion.
5. SPT Hammer: DJD MK1

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL	Driller: ST	Logger: FT/FK	CHD: AN	APRV: OS	Log Print Date & Time: 07/02/2022 17:51	
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Log Scale: 5 m per page

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 13/08/21
Date Completed 13/08/21

Ground Level (mOD)
29.79

Co-Ordinates
E 511464.63 N 180226.85

Final Depth
2.00m

Client

HDCI Hayes London Limited

Plant Used

Dynamic Sampling

Sheet
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		
13/08/21		Dry	29.59		0.20	CONCRETE. 0.08 ... with plastic sheeting	0.20-0.40	B1		VOC 5ppm	
			29.39		0.40	Brown dark grey and red slightly sandy GRAVEL. Gravel comprises angular fine to coarse brick, concrete and ceramic fragments. (MADE GROUND)	0.30 0.30 0.50-0.80	ES2 B3			
13/08/21		Dry			(1.40)	Firm, brown slightly gravelly CLAY. Gravel is subangular to subrounded medium to coarse flint. (LANGLEY SILT MEMBER)	1.00 1.00 1.00-1.20	ES4 B5		VOC 4ppm	
			27.99		1.80		1.50-1.80	B6			
13/08/21	2.00	Dry	27.79		2.00	Very dense, orangish brown sandy angular to subangular fine to coarse flint GRAVEL. Sand is fine to coarse. (LYNCH HILL GRAVEL MEMBER)	2.00 2.00		N50/75mm	7, 11 / 50 ... Borehole aborted at 2.00m depth (see Remarks)	
						End of Borehole	2.00 2.00	ES7		VOC 3ppm	

DYNAMIC SAMPLING RECOVERY				GENERAL REMARKS
From	To	Diameter (mm)	Recovery (%)	
1.20	2.00	87	90	

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø110mm casing used from ground level to 2.00m depth.
3. Borehole aborted at 2.00m depth due to refusal.
4. Borehole backfilled with bentonite pellets upon completion.
5. SPT Hammer: DJD MK1

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL	Driller: DN	Logger: TP	CHD: AN	APRV: OS	Log Print Date & Time: 07/02/2022 17:51	AGS
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Log Scale: 5 m per page

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 10/09/21
Date Completed 10/09/21

Ground Level (mOD)
29.26

Co-Ordinates
E 511511.17 N 180132.70

Final Depth
4.00m

Client

HDCI Hayes London Limited

Plant Used

Dynamic Sampling

Sheet

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		
10/09/21		Dry	29.24		0.02	Asphalt. (MADE GROUND)					
			28.96		0.30	Reinforced grey CONCRETE.	0.30	ES1		VOC 0.1ppm	
					(0.40)	Brown very gravelly silty fine to medium SAND with medium brick cobble content. Gravel comprises angular to subangular fine to coarse flint, brick and concrete fragments. (MADE GROUND)	0.30	B2		VOC 0.1ppm	
			28.56		0.70		0.50	ES3			
			28.26		1.00	Grey CONCRETE.	0.50	B4			
					(1.70)	Orangish brown very gravelly clayey fine to coarse SAND. Gravel comprises angular to subrounded fine to coarse flint and brick fragments. (MADE GROUND)	1.00	ES5		VOC 0.2ppm	
							1.00	B6			
							1.55			VOC 0ppm	
							1.55	ES7			
						2.00 ... becoming dense,	2.00		N33	9, 7 / 7, 7, 9, 10	
10/09/21	4.00	3.00	26.56		2.70	Dense, brown slightly gravelly silty fine to medium SAND. Gravel is angular to subrounded fine to medium flint. (LYNCH HILL GRAVEL MEMBER)	2.70	ES8		VOC 0.2ppm	
			26.26		3.00	Dense, brown silty fine to coarse SAND and angular to rounded fine to coarse flint GRAVEL. (LYNCH HILL GRAVEL MEMBER)	3.00		N41	8, 9 / 9, 12, 9, 11	
					(1.00)		3.50	ES9		VOC 0.5ppm	
			25.26		4.00	End of Borehole	4.00		N50/135mm	13, 12 / 22, 28 ... Borehole aborted at 4.00m depth (see Remarks)	

DYNAMIC SAMPLING RECOVERY				GENERAL REMARKS
From	To	Diameter (mm)	Recovery (%)	
1.20	2.00	87	100	
2.00	3.00	87	90	
3.00	4.00	87	100	

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø110mm casing used from ground level to 4.00m depth.
3. Borehole aborted at 4.00m depth due to refusal.
4. Ø50mm groundwater monitoring pipe installed at 4.00m, slotted between 1.00m and 4.00m depth.
5. Borehole backfilled with pea shingle between 4.00m and 1.00m and bentonite pellets between 1.00m and 0.20m depth. Concrete with a stopcock cover installed from 0.20m to ground level.
6. SPT Hammer: DJD MK1

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL	Driller: DN	Logger: JKH	CHD: AN	APRV: OS	Log Print Date & Time: 07/02/2022 17:51	
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Log Scale: 5 m per page

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 30/09/21
Date Completed 30/09/21

Ground Level (mOD)
29.18

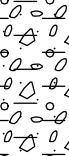
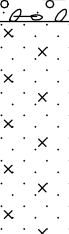
Co-Ordinates
E 511554.73 N 180203.21

Final Depth
4.00m

Client
HDCI Hayes London Limited

Plant Used
Dynamic Sampling

Sheet
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			
30/09/21	2.50	Dry	28.99		0.19	Reinforced light grey CONCRETE, clasts are angular to subrounded fine to coarse flint gravel (max. spacing between aggregate <8mm). Frequent air voids (<5mm). 0.13 ... with 2No Ø8mm rebar Grey CONCRETE. 0.19 ... with black membrane	0.30	ES1 B2	VOC 0.9ppm			
30/09/21			28.88		0.30		0.30					
					(0.90)		0.30				0.60	ES3 B4
							0.60	0.60				
							0.60	0.60				
			27.98					1.20	1.00		ES5 B6	VOC 0.1ppm
				(0.50)	1.00	1.00						
					1.50	1.50	ES7	VOC 0ppm				
		27.48		1.70	Dark grey slightly gravelly CLAY with musk odour. Gravel comprises angular to subangular fine flint and coal fragments. (MADE GROUND) 0.50 ... becoming clayey							
				(0.50)	2.00	N12	2, 2 / 2, 2, 3, 5					
		26.98						2.20	Stiff, orangish brown slightly sandy CLAY. (LANGLEY SILT MEMBER)			
								(0.80)	2.90		ES8	VOC 0ppm
26.18			3.00	Medium dense, greenish grey clayey sandy angular to subrounded fine to coarse flint GRAVEL. Sand is fine to coarse. (LYNCH HILL GRAVEL MEMBER)		2.90	N16		3, 4 / 4, 5, 4, 3			
				3.00								
30/09/21		2.80	25.18		(1.00)	Medium dense, greenish yellow gravelly silty fine to coarse SAND. Gravel is angular to subangular fine to medium flint. (LYNCH HILL GRAVEL MEMBER)		3.60			N41	... Borehole collapsing to 3.60m depth
30/09/21	2.80	25.18			End of Borehole	4.00	ES9	4, 4 / 5, 9, 16, 11 ... Borehole aborted at 4.00m depth (see Remarks) VOC 0.8ppm				
						4.00						

DYNAMIC SAMPLING RECOVERY				GENERAL REMARKS
From	To	Diameter (mm)	Recovery (%)	
1.20	2.00	87	94	
2.00	3.00	87	75	
3.00	4.00	77	75	

1. An inspection pit was hand excavated to 1.20m depth prior to boring commencing.
2. Ø110mm casing used from ground level to 2.50m depth.
3. Water level at 2.80m depth upon borehole completion.
4. Borehole aborted at 4.00m depth due to collapsing.
5. Ø50mm gas and groundwater monitoring pipe installed at 1.70m, slotted between 1.00m and 1.70m depth.
6. Borehole backfilled with bentonite pellets between 4.00m and 1.70m, pea shingle between 1.70m and 1.00m and bentonite pellets between 1.00m and 0.20m depth. Concrete with a stopcock cover installed from 0.20m to ground level.
7. SPT Hammer: MOD04.

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL	Driller: DN	Logger: JKH/TP	CHD: AN	APRV: OS	Log Print Date & Time: 07/02/2022 17:51	
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Log Scale: 5 m per page

Project

L4 Colt DCS Data Centre

Job No
21/3600

Date Started 30/09/21
Date Completed 30/09/21

Ground Level (mOD)
29.17

Co-Ordinates
E 511539.88 N 180208.41

Final Depth
4.00m

Client
HDCI Hayes London Limited

Plant Used
Dynamic Sampling

Sheet
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		
30/09/21		Dry	28.99		0.18	Reinforced light grey CONCRETE, clasts are angular to subrounded fine to coarse flint gravel (max. spacing between aggregate <7mm). Frequent air voids (<4mm). 0.12 ... with 1No Ø8mm rebar	0.30	ES1 B2		VOC 0ppm	
					(1.02)	Dark brownish grey gravelly silty very clayey fine to coarse SAND with medium brick and concrete cobble content and rare roots. Gravel comprises angular to subrounded fine to coarse flint, concrete and brick fragments. (MADE GROUND)	0.30			VOC 0ppm	
						0.50 ... becoming dark grey with low brick and concrete cobble content	0.30				
			27.97		1.20	0.80 ... with black membrane	0.60	ES3 B4			
					(0.90)	Firm, dark brown sandy gravelly CLAY. Gravel is angular to subangular fine to medium flint. Sand is fine to coarse. (LANGLEY SILT MEMBER)	0.60				
						1.50 ... becoming orangish brown	1.00				
30/09/21	2.50	2.80	27.07		2.10	Dense, greyish green gravelly fine to medium SAND. Gravel is angular to subangular fine to coarse flint. (LYNCH HILL GRAVEL MEMBER)	1.00-1.20	ES5 B6		VOC 0.2ppm	
					(0.90)		2.00				
							2.00				
							2.00				
30/09/21	2.50	2.80	26.17		3.00	Dense, greyish green sandy angular to subangular fine to medium flint GRAVEL. (LYNCH HILL GRAVEL MEMBER)	3.00	ES7		N36	1, 2 / 4, 7, 12, 13 VOC 0ppm
					(1.00)		3.00				
							3.00				
							3.20				
30/09/21	2.50	2.80	25.17		4.00	End of Borehole	4.00	ES8		N48	7, 18 / 12, 12, 12, 12 VOC 0ppm
							4.00				
30/09/21	2.50	2.80					4.00	ES9			... Borehole aborted at 4.00m depth (see Remarks) VOC 1.8ppm
							4.00				

DYNAMIC SAMPLING RECOVERY				GENERAL REMARKS
From	To	Diameter (mm)	Recovery (%)	
1.20	2.00	87	94	
2.00	3.00	87	90	
3.00	4.00	77	50	

KEY: Drilled By: ES-Environmental Sample (Tub, Vial, Jar), U38-38mm Diameter Undisturbed Sample, U36-36mm Diameter Undisturbed Sample D-Disturbed Sample, B-Bulk Sample, C-Core Sample, W-Water Sample, R-Root Sample AZCL: Assumed Zone of Core Loss
V-Shear Vane, PP-Pocket Penetrometer, MP-Mackintosh Probe, VOC-Volatile Organic Compounds
All depths are in metres, all diameters in millimetres, water strike rise time in minutes. For details of abbreviations see Key

Issue: FINAL	Driller: DN	Logger: JKH/TP	CHD: AN	APRV: OS	Log Print Date & Time: 07/02/2022 17:51	
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Log Scale: 5 m per page

Project

L4 Colt DCS Data Centre

Job No

21/3600

Date Started

26/08/21

Date Completed

26/08/21

Ground Level (mOD)

29.18

Co-Ordinates

E 511574.77 N 180194.93

Final Depth

1.20m

Client

HDCI Hayes London Limited

Plant Used

Hand Excavated

Sheet

1 of 1

STRATA

SAMPLES & TESTS

Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth	Type No	Test Result	Field Records
	29.01		0.17	Light grey CONCRETE, clasts are angular to subrounded fine to coarse flint gravel (max. spacing between aggregate <15mm). Frequent air voids (<15mm).	0.17-0.50	B1		
			(1.03)	Light greyish brown very gravelly silty fine to medium SAND. Gravel comprises angular to subrounded fine to coarse flint, concrete and brick fragments. (MADE GROUND)	0.30 0.30 0.50-0.80 0.60 0.60	ES2		VOC 0.5ppm
				0.80 ... becoming light brownish grey with 1No metal fragment <50mm	0.80-1.00 0.90 0.90	B5 ES6		VOC 0.1ppm
	27.98		1.20	End of Trial Pit	1.20			... Location aborted at 1.20m depth (see Remarks)

GENERAL REMARKS

1. An inspection pit was hand excavated prior to borehole commencing.
2. Borehole location aborted at 1.20m depth and continued as BH102B.

Issue: FINAL

Driller: DN

Logger: JKH

CHD: AN

APRV: OS

Log Print Date & Time:

07/02/2022 17:50

Project

L4 Colt DCS Data Centre

Job No

21/3600

Date Started

30/09/21

Date Completed

30/09/21

Ground Level (mOD)

29.61

Co-Ordinates

E 511523.14 N 180155.38

Final Depth

1.60m

Client

HDCI Hayes London Limited

Plant Used

Dynamic Sampling

Sheet

1 of 1

STRATA

SAMPLES & TESTS

Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth	Type No	Test Result	Field Records
	29.06		(0.55)	Light grey reinforced CONCRETE, clasts are angular medium flint gravel (max. spacing between aggregates <5mm). Occasional air voids (<5mm). 0.10 ... with 1No Ø5mm horizontal rebar 0.15 ... with 1No Ø10mm horizontal rebar				
	28.81		(0.25)	Dark brown slightly sandy silty GRAVEL. Gravel comprises angular medium to coarse mixed lithologies. Sand is fine to coarse. (Type 1) (MADE GROUND)	0.70	ES1		
	28.71		0.90	Grey CONCRETE, clasts are angular medium to coarse flint gravel (max. spacing between aggregates <4mm).	1.00	ES2		
			(0.70)	Dark brown, slightly sandy silty GRAVEL. Gravel comprises angular medium to coarse mixed lithologies. Sand is fine to coarse. (Type 1) (MADE GROUND)	1.20-1.60	B3		
	28.01		1.60		1.60			
				End of Trial Pit				... Borehole aborted at 1.60m depth (see Remarks)

GENERAL REMARKS

1. An inspection pit was hand excavated to 1.20m prior to borehole commencing.
2. Borehole aborted at 1.60m depth due to refusal.
3. Borehole backfilled with bentonite pellets upon completion.

Issue: FINAL

Driller: DN

Logger: TP

CHD: AN

APRV: OS

Log Print Date & Time: 07/02/2022 17:50



Log Scale: 4 m per page

Project

L4 Colt DCS Data Centre

Job No

21/3600

Date Started

26/08/21

Date Completed

26/08/21

Ground Level (mOD)

28.93

Co-Ordinates

E 511567.29 N 180155.80

Final Depth

0.48m

Client

HDCI Hayes London Limited

Plant Used

Hand Excavated

Sheet

1 of 1

STRATA

SAMPLES & TESTS

Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth	Type No	Test Result	Field Records
	28.91		0.02	Concrete tile.				
			(0.46)	Greyish brown very gravelly silty fine to medium SAND. Gravel comprises angular to subrounded fine to coarse flint, concrete and brick fragments. (MADE GROUND)	0.30 0.30 0.30 0.48	ES1 B2		VOC 0ppm
	28.45		0.48					
	28.45		0.48	CONCRETE. End of Trial Pit				... Pit aborted at 0.48m depth (see Remarks)

GENERAL REMARKS

1. An inspection pit was hand excavated prior to borehole commencing.
2. Pit aborted at 0.48m depth due to presence of concrete obstruction. Location moved to position WS218A.
3. Pit backfilled with soil arisings and made good upon completion

Issue: FINAL

Driller: DN

Logger: JKH

CHD: AN

APRV: OS

Log Print Date & Time:

07/02/2022 17:50

Project

L4 Colt DCS Data Centre

Job No

21/3600

Date Started

26/08/21

Date Completed

26/08/21

Ground Level (mOD)

28.92

Co-Ordinates

E 511567.52 N 180156.72

Final Depth

0.37m

Client

HDCI Hayes London Limited

Plant Used

Hand Excavated

Sheet

1 of 1

STRATA

SAMPLES & TESTS

Water	Level (mOD)	Legend	Depth (Thickness)	Strata Description	Depth	Type No	Test Result	Field Records
	28.90		0.02	CONCRETE tile.				
			(0.35)	Greyish brown very gravelly silty fine to medium SAND. Gravel comprises angular to subrounded fine to coarse flint, concrete and brick fragments. (MADE GROUND)	0.30			VOC 0ppm
	28.55		0.37		0.30	ES1		
	28.55		0.37	CONCRETE.	0.30	B2		
				End of Trial Pit	0.37			... Pit aborted at 0.37m depth (see Remarks)

GENERAL REMARKS

1. An inspection pit was hand excavated prior to borehole commencing.
2. Pit aborted at 0.48m depth due to presence of concrete obstruction.
3. Pit backfilled with soil arisings and made good upon completion

Issue: FINAL

Driller: DN

Logger: JKH

CHD: AN

APRV: OS

Log Print Date & Time:

07/02/2022 17:50

SPT Hammer Energy Test Report

In accordance with BSEN ISO 22476-3:2005

M Simpson
Dando Drilling International LTD
Unit G
Ford Airfield Industrial Estate
Ford, Arundel
West Sussex, BN18 0NW

SPT Hammer Ref: DJD MK1
Test Date: 29/07/2021
Report Date: 29/07/2021
File Name: DJD MK1.spt
Test Operator: MS



Instrumented Rod Data

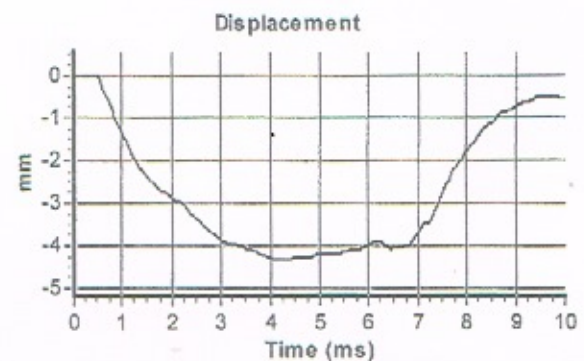
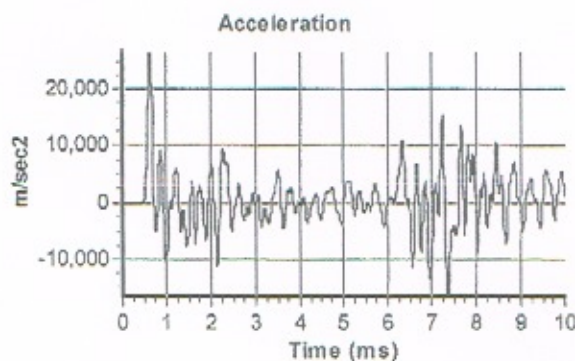
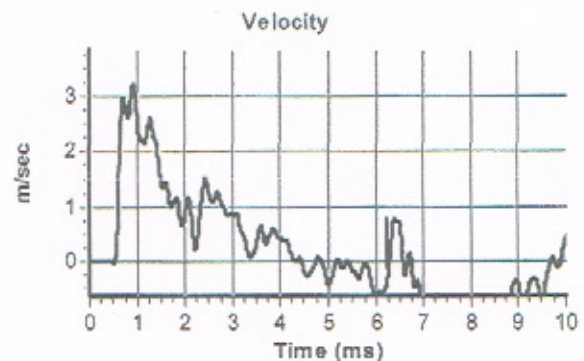
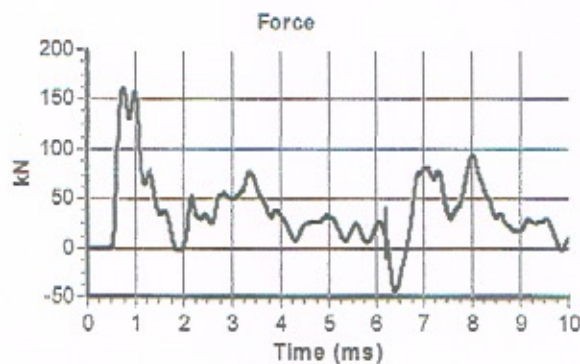
Diameter d_r (mm): 54
Wall Thickness t_r (mm): 6.5
Rod Length l_r (m): 1.0
Assumed Modulus E_a (GPa): 208
Accelerometer No.1: 11855
Accelerometer No.2: 11406

SPT Hammer Information

Hammer Mass m (kg): 63.5
Falling Height h (mm): 760
SPT String Length L (m): 15.5

Comments / Location

terrier Mk1



Calculations

Area of Rod A (mm^2): 970
Theoretical Energy E_{theor} (J): 473
Measured Energy E_{meas} (J): 366

Energy Ratio E_r (%): **77**

Signed: M Simpson
Title: W/Shop Foreman