APPENDIX A

Site Topographical Survey



	LAND ANE SERVICES Establisher OPEN SPAC TEL 01886 email: word OLD DAIRY, TEL 01708 email: londe	DEVELOPMENT DEVELOPMENT LOCATION, CCTV dd 1975. Membe E, LEIGH SINTON ROL 833173 esterføllasersurveys.cc STUBBERS FARM. M 438408 FXX 01706 om@lasersurveys.com	VEYS, UNE / DRAINAG rr of The ad, upper am DUNTNESSIN a 438405	DERGR E SUI Surve INTERFIE	OUND NETS. J Association. 1DS, MALVERN, WR14 1UT , BLACKMORE, CM4 ONX
	DATUM NO CO-ORDIN USING TH WITH A S	DTES MATES USED ARE E ACTIVE GPS NE CALE FACTOR OF	BASED OF TWORK AN 1.0000.	N O/S	NATIONAL GRID, OBTAINED JUSTED TO A LOCAL GRID
	LEVELS A	RE RELATED TO :	- ORDNAM	ICE SU	JRVEY ACTIVE GPS NETWORK
	SURVEY C	CONTROL STATIONS	5 SHOWN		۵
		ABBREVIAT	IONS (wh	iere a	pplicable)
	옥동료암탑で시니다이상한 안전가 다음한 마루는 무너무한 장상한 바고 프로 '사용 안 비 만 볼 다. 활동형 분성 비 강 환경	Viewer Bisland Bisland Bisland Bisland Bisland Bisland Bisland Bisland Bisland Bisland Column Coele Borande Column Control Erkhning Drain Pipe Bechtoly Pole Control Erkhning Poin Pipe Bechtoly Pole Control Erkhning Pole Cas Wole Cas Wole Cas Wole Cas Wole Cas Wole Cas Wole Cas Wole Cas State Pole Woler State State Bechtol State State State State Bechtol Santageoto Santageo	, vi	MK SMTYOH VPB PPM RETERS SS SK STTHL TKTP GGTFLUTTP WLWWG	Nacher Macher Meter Weter Weter Proving Downhoad Proving Proving Post on Roll Post on Roll Post on Roll Post on Roll Post on Roll Relating Relating Septo Trak Silo Vake Septo Trak Silo Vake Septo Trak Silo Vake Comerco Security Vake Comerco Security Vake Comerco Security Vake Comerco Security Vake Comerco Security Vake Disability Trak Task Task Task Task Task Task Task Ta
	UTT UTF	No Pipes Visible Unable To Trace Unable To Finish	NOTES		
• D • T • A • T • A • V • V • V • V • V	trainage p urface for ppproximat ree specie xpert iden Uthough tt hown is c s specifie isible feat nay not re /hilst ever /hilst ever /kUCIAL ci hecked p ierb levels	ipe sizes (where safety reasons e only. s (where shown) tification is advis is is a digital s, nhy commensurat d. Care should b ures in the vicini spresent the exte earance dimensio ior to design and have been take	shown) h and should b red. urvey the te with the e exercise ity of the int of legu n made tt ns, levels d construu n in the l	ave be d be e trea accurs e grap ed whe bound ally co o achi- and i ction.	ten gauged from the regarded as ted with caution and any and anowuh of detail hical scale of mapping in working to larger scales, darks as shown above, mer accuracy on this plan, nvert levels should be a of the channel.
		SHI	EET LAYO	DUT	
	79	AVE LO NW	NU ND 8	E 01 6 J	ROAD, N D
		UNDERGF	ROUN	D :	SURVEY
SURV	VEYED FOR	KSR ARCHITECTS 14 GREENLAND S LONDON NW1 OND	TREET		SURVEYOR HARRY GAZARD DATE JULY 2019
NO	DATE		R	EVISION	
-	I		NO	6	9399/5 REV 0
-	С	RAWING TI	TLE		INDERGROUND
\vdash		SC/	ALE	1	: 100 (A2)
5	SEE AL	SO DWG N	IOS		. /
		SH	EET	5	of 5
		REF	NO	Ģ	9399

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APPENDIX B

Proposed Development Plan

Name This Developed as COPPRENT OF FORM. Devotor Found: Encountries Developed ones one yit to Found the Devotor Found: Encountries Developed ones one protemportune on the Devolution of the Devotor ones one Reporting to the Devolution on the Devolution on the Devolution Reporting to the Devolution on the Devolution on the Devolution Reporting to the Devolution on the Devolution on the Devolution on the Reporting to the Devolution on the Devolution on the Devolution on the Reporting to the Devolution on the Devolution on the Devolution on the Reporting to the Devolution on the Reporting to the Devolution of Devolution on the Devolution on th



PROPOSED CROSS SECTION A - A



PROPOSED CROSS SECTION B - B



A CONTRACTOR PORT OF A CONTRAC

Preduct a Statute for Content Preduction Deal Deal Preduction Deal Deal Preduction Preduction

0m 1m 2m 2m 4m 5m 1:50 @ A0 ; 1:100 @ A2









APPENDIX C

BGS Historic Borehole records



TO285E/25 (A-3 2654,8381 GROUND EXPLORATIONS LIMITED SHEE BOREHOLE SECTION Date December ; ORDER NO. CONTRACT NAME UINTIN SCHOOL. Bored for : Massrs. Or . Arup & Partners, Address : 8. Fitarey Strawt, Hola Address of Site : Marlborough Mill. County : saden. District or Town : Finchiev . Dia. of Borehole : Inches Standing Water Level : 1711. Below Surface : (3) (2)Water Struck (1) STL. Boring Completed : 19. 11. 52. Boring Commenced : 19. 11. 52. Special Remarks :

Jar Samples : 2*0"-4582: 5*0"-4583: 10*0"-4585: 15*0"-4587: 20*0"-4589:

British Geological Survey	DESCRIPTIO	N OF STRATA			Thic Feet	inches	Depth Survey Surf Feet	Below ace Inches
Clients are reques descriptions employed for their appendix to	ted to examine th below are general o commercial purp No.	e samples of the terms and respo oses. Boring	Strata submitted nsibility is not a	, as the accepted				
British Goolanical Survey Made Group Brown 31 ay	¢.	Br	itish Geological Survey		0 19	9 3	0 (0-23- 20 (6-10-) agourrey ' : -) Ø
								6 947 (1
British Geological Survey	, B	ilish Geological Survey			8	itish Geological	Survey	
				and the second second				18 M
				3				
British Geotogical Survey		Br	ilish Geological Survey				British Geold	uical Survey
	r.		fotal, from Suri	FACE	20	0	20	0

This form is to be returned to Head Office immediately the borehole is finished.

Foreman's Signature

Date an an bor.

1952.

GROUND EXPLORATIONS LIMITED BOREHOLE SECTION SHEET

T9285E/255 Page 249

Date. Badamhar 1

					Date		Sear.		.19
C	CONTRACT NAME	UINT.	en P ch obin	British Geological Survey		Order	No. British Geo	👾 logical 1	
	Bored for :	Necore.	Gve arup &	Factners,					
	Address :	, Fitat	ray Street,	8.1.					
	Address of Site :	Norlborg	ngh Hill.						
	District or Town	: Finch.	iay.			County :	London.		
	Standing Water L	evel :	az.	Below Surface :		Dia. of Bor	ehole :	6	Inches.
vey	Water Struck (1)	548 Ba	British Geological Su (2)	rvey	(3)	British Geological	Survey		
	Boring Commence	d: 16.	12. jd.	Bor	ing Completed	: 18.3	1. 52.		
	Special Remarks :								

British Geological Survey

Core Samples : 7'0"-7'0"-4576; 12'0"-12'6"-4576; 17'0"-17'6"-4500;

British (Jeological Survey	DESC	RIPTION OF	STRATA	Thicl Peet	iness ^{logical S} Inches	Depth Sur Feet	Below face Inches
	Clients are a descriptions emp for their applicat	requested to ex loyed below ar tion to commen	amine the samp e general terms cial purposes.	les of the Strata submitted, as and responsibility is not accep	the ted			
	B	No.	a Bori	ng	chickness, school			
	Britsh G. Tophal. Br Gull	l Clay		British Geological Survey	0 24	۹ د		3)∷⊊ 2) Q
					3	э	8	
British (eological Survey		British Geolo	lical Survey	Britti	ih Geological S	Ivey	а. ⁹
							Conception of the second	
	British Géological Sure	e)		British Geological Survey			British Geolog	c al Survey
				TOTAL FROM SURFACE	··· 25	Ø	45	0

This form is to be returned to Head Office immediately the borehole is finished.

Foreman's Signature.

P. & R. Ltd.-9479

Kings Scholars fond GEORGE WIMPEY AND COMPANY LTD. - Diversion of Wellington CENTRAL LABORATORY food branch-stage IL BOREHOLE RECORD TQ 2856/353 2672.8379 256 B.H. No. 2 Ground level: +168.6 ft. 51.38m Type of boring : Shell and Auger Date completed : 12.6.62. Lining tubes :..... Change of Strata Samples Depth of Boring Water Description of Strata logical Survey Date Depth 0.0. Level Depth Туре Legend 1.0" 167.6 Paving stones over fill 12.6.62 Nil 2'6" 166.1 Brown clay with sonoo 2'6" D 1. 01 D Moitled brown and grey clay 910 D 3.66m 47.73r 14' 0" D 1910 D Dark brown fissured clay with a few gypsum crystals 21'0" D 25" 0"-BD 5 30"0" 9.14m 42.24m Remarks: Note: Level of borchole determined by reference to T.B.M. at Intersection of Boundary Road and St. John's Wood Park. Soils No : S/3230 Fig. No :



APPENDIX D

CGL Borehole and Foundation Inspection Pit Records

Notes

- 1. Trial pit terminated at 0.90mbgl.
- 2. mbgl = metres below ground level.
- 3. No groundwater encountered.



TP1 Section A-A'









WINDOW SAMPLE LOG

	Project										I	HOLE No	
	79	Avenue	Road									\ \/ C1	
-	Job No		Dat	е			Ground Le	evel (m)	Co-Ordinates (m)			VV 31	
	CG/	38181		05	5-09-19)	4	6.04	E 526,883.9 N 18	3,859.0			
	Client										Sheet		
	FO	RM Stru	ictural D	esi	gn							1 of 1	
Γ	SAMP	LES & T	ESTS						STRATA				ent
	Depth (m)	Type No	Test Result (N/kPa/ppm)	Watei	Reduced Level	Legend	Depth (m) (Thick- ness)		DESCRIPTIC	N			Instrum /Backfill
	0.30	ES1			45.54		(0.50) 0.50	Brown silty (rounded, fin roots. [TOPSOIL] Firm brown subrounded	gravelly sand. Sand is fine to te to medium of flint, brick ar slightly gravelly slightly silty (fine of flint	medium. Grave Id ceramic. Wit CLAY. Gravel is :	el is angu h fine to subangu	ular to o medium ular to	
	0.80-1.00 1.00	B1 ES2					- - (1.00) -	[HEAD DEPC	jsits]				
	1.75-2.00	B2			44.54		1.50	Firm mottle noted. Occa [HEAD DEPC	d brown and grey slightly silt sional fine to medium roots. DSITS]	y CLAY. Slight b	ioturbat	tion	
	2.50 2.75-3.00	ES3 B3			43.64		2.40	Firm mottle rounded, me [HEAD DEPC	d brown and grey slightly silt edium of flint. SSITS]	y gravelly CLAY.	. Gravel	is	
	3.75-4.00	В4			42.54		(1.10) 3.50	Firm brown [WEATHERE	with occasionally mottled gr D LONDON CLAY FORMATIO	⊇y slightly silty (N]	CLAY.		
	4.75-5.00	B5			41.04		5.00	(Window sc	imple terminated at 5m)				
<u>*</u>	Boring P	rogress	and Wa	ter	Obser	vation	S Standing	General F	Remarks				
	Date	Strike depth	Casing depth	Cor	nment r	Time neasured	Standing Depth	 Borehole Installed v bentonite set Groundwi No visual ES - Enviro Undisturbed 	terminated at 5.0m. with 50mm standpipe; 0.0m f eal; 1.0m to 5.0m Slotted pipe ater was not encountered. or olfactory evidence of cont onmental sample, B - Bulk sa I sample.	to 1.0m Cover, e and gravel. amination. mple, D - Distur	bung, pl	lain pipe and	ł
	Method/ Plant Usec	Hand	l Held W	indc	w sam	ple		Field Crew GEH Gr	oundworks Specialists	Logged By CGH	(Checked By RJB	'

CGL

BOREHOLE LOG

Project										BOREHO	LE No
79 A	venue	Road						-		BH	1
Job No		Dat	е			Ground Le	evel (m)	Co-Ordinates (m)			1
CG/38	3181		05	5-09-1	9	45	5.65	E 526,908.0 N 18	3,869.7		
Client										Sheet	-
FOR	M Stru	ctural D	esi	gn						1 of	3
SAMPLE	ES & TE	STS	er			1- • • •		STRATA			ment ill
Depth (m)	Type No	Test Result	Wat	Reduce Level	d Legend	Depth (m) (Thick- ness)		DESCRIPTIO	N		Instrur /Backf
0.10-0.50	B1			45.60 45.40 45.30		<u>0.05</u> 0.25 0.35	Cobbles of	paving DUND] broken brick, mortar and tarm	nac.		
_ 0.40 	ES1				× × ×		Orange bro to subround [MADE GRO Firm mottle rounded, m	wn gravelly sand. Sand is med ded, fine to coarse of flint and DUND] ed brown and grey slightly silty iedium of flint.	lium to coarse. brick. / gravelly CLAY	Gravel is angul	ar
1.00 1.00	D2 ES2					× × ×	[HEAD DEP	OSITS]			
1.50 -		N18				(2.13)					
2.00 2.00-2.50 	D4 B5			43.1		2 * * * * * * * * *					
2.50-2.95	U6 ES3						Firm to stiff With freque [WEATHER]	orange brown occasionally ment fine selenite crystals. ED LONDON CLAY FORMATIOI	nottled grey slig	ghtly silty CLAY.	
3.00	D7	N17									
 4.00 	D9					× · · · · · · · · · · · · · · · · · · ·					
_ _ 4.50-4.95 _ _	U10						4.60 Freque	ent selenite crystals.			
5.00	D11				× × ·	×-					
Boring Pro	ogress	and Wa	ater	Obse	vation	s	General	Remarks			
Date Co	mment	Strike Depth	D	Casil epth	ng Dia. mm	Standing Depth	1. Borehole 2. Installed bentonite s arisings. 3. Groundw 4. No visual 5. ES - Envin Undisturbe	terminated at 15.0m. with 50mm standpipe; 0.0m t eal; 1.0m to 5.0m Slotted pipe vater was not encountered. or olfactory evidence of cont. onmental sample, B - Bulk sar d sample.	o 1.0m Cover, e and gravel; 5. amination. mple, D - Distu	bung, plain pipe Om to base Nat rbed sample, U	e and ural -
Method/		Cable Pe	ercu	ssion		<u> </u>	Field Crew	Lay (Shell and Auger	Logged By CGH	Checke	d By RJB



BOREHOLE LOG

Project										BOREHOLE	E No
79 A	venue	Road						1		BH1	
Job No		Da	te			Ground Le	evel (m)	Co-Ordinates (m)		DIT	
CG/38	8181		0	5-09-19	9	4	5.65	E 526,908.0 N 1	.83,869.7		
Client										Sheet	
FOR	M Stru	ictural	Desi	gn						2 of 3	
SAMPLE	ES & T	ESTS	5					STRATA			l l
Depth (m)	Type No	Test Result	Wate	Reduce Level	dLegend	Depth (m) (Thick- ness)		DESCRIPTI	ION		Instrum /Backfi
- - - - - - - - - - - - - - - - - - -	D12	N18				(6.20)	Firm to stiff o With frequer [WEATHEREI	orange brown occasionally nt fine selenite crystals. D LONDON CLAY FORMATI	mottled grey sli	ghtly silty CLAY.	
- _ 7.00 -	D14					┑╷┑					
- _ 7.50-7.50 -	U15					<u>┶╴┶┽</u> ┙┾┵╷╴					
8.00 8.00 100 100 100 100 100 100 100 100 100	D16					┯╌╌┿╌╵┿╴╵┯╾╌┿╌					
	D17	N18		36.95		* 8.70 * 8.70	Firm to stiff (grey slightly silty CLAY. AY FORMATION]			
- - - - - - - - - - - - - - - - - - -	D19										
Boring Pro	ogress	and W	ater	Obser	vation	S	General R	emarks			
Date Co	mment	Strike Depth	D	Casir epth I	ng Dia. mm	Standing Depth	 Borehole t Installed w bentonite se arisings. Groundwa No visual a No visual a ES - Enviro Undisturbed 	terminated at 15.0m. vith 50mm standpipe; 0.0m al; 1.0m to 5.0m Slotted pi oter was not encountered. or olfactory evidence of cor onmental sample, B - Bulk s sample.	n to 1.0m Cover, pe and gravel; 5. ntamination. ample, D - Distu	bung, plain pipe a Om to base Natur rbed sample, U -	ind al
Method/ Plant Used		Cable P	ercu	ssion		1	Field Crew Steve	Lay (Shell and Auger	Logged By CGH	Checked I RJI	By B

BOREHOLE LOG

										CGI
Project										BOREHOLE No
79 A	venue	Road	d							ВН1
Job No		[Date			Ground Le	evel (m)	Co-Ordinates (m)		
CG/38	8181		0	5-09-1	19	4	5.65	E 526,908.0 N 1	183,869.7	Chart
Client	A Char			-						Sheet
				gn				CTDATA		<u> </u>
SAMPLE	5&1	ES15	ter			Depth (m)		SIRAIA		
Depth (m)	Type No	Tes Resu	it µlt ≥	Reduc Leve	ed Legend	(Thick- ness)		DESCRIPT	ION	Instru
10.50-10.50 - 11.00	U20 D21						Firm to stiff [LONDON C	grey slightly silty CLAY. LAY FORMATION] <i>(continue</i>	ed)	
12.00 12.00	D22	N22	2			× × (6.30) × × × ×				
13.00	D24					<u>┹╷┖┥╵¥╵╷┺╷└</u> ┷				
13.50-13.50	U25					- 				
14.00	D26									
15.00 15.00	D27	N26	6	30.0	<u>× × </u> 55 × _ × -	- <u>15.00</u> - <u>15.00</u> -	(Borehole t	erminated at 15m)		
Boring Pro	gress	and	Wate	r Obse	rvation	s	General I	Remarks		I
Date Cor	nment	Strik Dept	ke th D	Cas Depth	ing Dia. mm	Standing Depth	 Borehole Installed bentonite so arisings. Groundw No visual ES - Envir Undisturbed 	terminated at 15.0m. with 50mm standpipe; 0.0n eal; 1.0m to 5.0m Slotted pi ater was not encountered. or olfactory evidence of co onmental sample, B - Bulk s sample.	n to 1.0m Cover, ipe and gravel; 5. ntamination. sample, D - Distu	bung, plain pipe and Om to base Natural rbed sample, U -
Method/ Plant Used		Cable	e Percu	ission			Field Crew Steve	Lay (Shell and Auger	Logged By CGH	Checked By RJB

APPENDIX E

Monitoring Record



GAS MONITORING RECORD SHEET

JOB DETAILS									
Site:	79 Avenue Roa	ıd				Job No:	CG/38181		
Date:	21/10/2019					Engineer:	ТВР		
Time:	9:40 to 12:00					Client	Form Structura	l Design	
						·			
METEOROLO	GICAL & SITE IN	FORMATION							
			1	1	h	1	t	1	
State of ground	d:	Dry		Moist		Wet	Х		
Wind:		Calm		Light	Х	Moderate		Strong	
Cloud cover:		None		Slight		Cloudy		Overcast	Х
Precipitation:		None		Slight	Х	Moderate		Heavy	
Barometric pre	essure (mb):	9	98	Local press	ure system*:	Rising	Air te	emperature (°C):	11 to 12
					,		-	· · · · · · · · · · · · · · · · · · ·	
r	1						1	Donth to	
Well No.	Time (s)	Flow (l/hr)	dA (PA)	0 ₂	CO2	CH ₄	PID	Groundwater	Depth to base
Weilite.	1111C (3)	11000 (1/111)	W A (1 A)	(% vol. in air)	(% vol. in air)	(% vol. in air)	(ppm)	(mbgl)	(mbgl)
	0	< 0.1	< 0.1	19.7	0.0	< 0.1	< 0.1	2.22	5.03
	15	< 0.1	< 0.1	9.0	4.6	< 0.1	< 0.1	2.22	5.00
	30	< 0.1	< 0.1	6.7	4.8	< 0.1	< 0.1		
	45	< 0.1	< 0.1	6.4	4.8	< 0.1	< 0.1		
	60	< 0.1	< 0.1	6.3	4.9	< 0.1	< 0.1		
	90	< 0.1	< 0.1	6.2	4.9	< 0.1	< 0.1		
	120	< 0.1	< 0.1	6.1	4.9	< 0.1	< 0.1		
	150	< 0.1	< 0.1	6.1	4.9	< 0.1	< 0.1		
	180	< 0.1	< 0.1	6.1	4.9	< 0.1	< 0.1		
BH1	240	< 0.1	< 0.1	6.0	4.9	< 0.1	< 0.1		
	300	< 0.1	< 0.1	6.0	4.9	< 0.1	< 0.1		
	360			5.9	5.0	< 0.1			
	420			5.9	5.3	< 0.1			
	480			5.8	5.5	< 0.1			
	540			5.7	5.8	< 0.1			
	600			5.7	5.9	< 0.1			
	660			5.7	5.9	< 0.1			
	720			5.7	5.9	< 0.1			
									•
	0	< 0.1	< 0.1	20.3	0.0	< 0.1	< 0.1	4.16	5.14
	15	< 0.1	< 0.1	17.5	1.5	< 0.1	< 0.1		
	30	< 0.1	< 0.1	16.4	1.7	< 0.1	< 0.1		
	45	< 0.1	< 0.1	15.8	1.9	< 0.1	< 0.1		
	60	< 0.1	< 0.1	15.4	2.1	< 0.1	< 0.1		
	90	< 0.1	< 0.1	14.4	2.4	< 0.1	< 0.1		
	120	< 0.1	< 0.1	13.5	3.0	< 0.1	< 0.1		
	150	< 0.1	< 0.1	12.8	3.4	< 0.1	< 0.1		
	180	< 0.1	< 0.1	11.8	3.8	< 0.1	< 0.1		
WS1	240	< 0.1	< 0.1	10.0	4.5	< 0.1	< 0.1		
	300	< 0.1	< 0.1	8.9	4.9	< 0.1	< 0.1		
	360			8.4	5.0				
	420			8.3	5.1				
	480			8.2	5.1				
	540			8.1	5.1				
	660			0.1	5.1				
	720			8.U	5.2				
	720	ł	1	0.U	5.2	ł			
	780			8.0	5.2				
	0								
	15								
	30	1	1	1	1	1			<u> </u>
	45								
	60	1	1	1	1	1	1		
	90								
	120								
	150	1	1	1	1	1	1		
	180	1	1	1	1	1	1		
	240		1	1		1	İ		
	300								
		•			•	•	•		

Notes:

The measurement of hydrogen sulphide and hydrocarbon free product is undertaken on a site specific basis, if deemed necessary. * With reference to the timeanddate historic weather records.

* With reference to the timeanddate historic weather re-NR= Not recorded

APPENDIX F

Laboratory Results

Liquid and Plastic Limits

i2 Analytical Ltd 7 Woodshots Meadow Croxley Green Business Park Watford Herts WD18 8YS

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Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client:	Card Ge	eotechnics Ltd		Client Refe	rence: CG38181
Client Address:	4 Godalı	ming Business Centre, Woo	sack Way,	Job Nu	mber: 19-58535
	Godalmi	ing, Surrey,	-	Date Sar	npled: 05/09/2019
	GU7 1X	W		Date Rec	eived: 06/09/2019
Contact:	Charles	Hooper		Date T	ested: 16/09/2019
Site Name:	79 Aven	ue Road		Sample	ed By: Not Given
Site Address:	Not Give	en			
Test Results:					
Laboratory Reference:	1310854	1		Depth To	p [m]: 1.00
Hole No.:	BH1			Depth Bas	e [m]: Not Given
Sample Reference:	2			Sample	Type: D
Soil Description:	Brown s	lightly gravelly CLAY			
Sample Preparation:	Tested a	after washing to remove >42	5um		
As Received Moist	ure	Liquid Limit	Plastic Limit	Plasticity Index	% Passing 425µm
Content [%]		[%]	[%]	[%]	BS Test Sieve

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Liquid and Plastic Limits

i2 Analytical Ltd 7 Woodshots Meadow Croxley Green Business Park Watford Herts WD18 8YS



Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Clien Clien	t: t Addre	ess:	Card 4 Go Goda GU7	Geotec dalming alming, 3 1XW	hnics I Busir Surrey	Ltd ness /,	Centr	e, Wo	olsac	ck Way	<i>I</i> ,	511-2	. 1990	. Ciaus	6 4.0		(Client Jo Date Date	Refer ob Nu e San e Rec	rence: Imber: npled: eived:	CG38 ⁻ 19-585 05/09/ 06/09/	181 535 2019 2019)	
Conta	act:		Char	les Hoo	per													D	ate T	ested:	16/09/	2019)	
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Soil E	Descrip	tion:	Yello	wish bro ed in na	own C tural c	CAY	tion																	
As	s Recei	ived Mois	ture		Liqu	uid L	imit			Р	lastic	Limi	t	-		Plasti	city In	Idex		1	% Pass	sing	425µ	m
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This report r The results i The analysis	may not be repr included within was carried ou	oduced other than in fi the report are represe t at i2 Analytical Limite	ull without the ntative of the sa ed, ul. Pionierov	prior written app amples submitteo w 39, 41-711 Rud	roval of the is d for analysis. a Slaska, Pola	ssuing labo and."	ratory.			F	Page 1	of 1	ל" ח	iny assessme leasurement.	nt of compl Application	iance with sp n of uncertair	ecifications b nty of measur	ased the ana ement would	alytical resul d provide a r	lts in a report range within w	take in to accou nich the true re un	nt no conf esult lies. / certainty	ribution fron An estimate c can be provid	n uncertainty of of measurement ded on request."

Liquid and Plastic Limits

i2 Analytical Ltd 7 Woodshots Meadow Croxley Green Business Park Watford Herts WD18 8YS



Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5 Card Geotechnics Ltd

Client: Client	Addre	ess:	Card 4 Go Goda GU7	Geot dalmi alming 1XW	echnio ng Bu g, Suri	cs Ltd sines rey,	s Centr	e, Wo	olsac	k Way		7-2. 138				C	lient Ro Job Date S Date F	eferen Numb Sample Receive	ce: C0 ber: 19 ed: 05 ed: 06	G3818 ⁻ 9-58535 5/09/20 5/09/20	1 5 19 19	
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Liquid and Plastic Limits

i2 Analytical Ltd 7 Woodshots Meadow Croxley Green Business Park Watford Herts WD18 8YS



Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

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Conta	act:		Char	les Hoop	er										Date	Tested	16/09/20	019
Site N	Vame:		79 Av	venue Ro Siven	ad										Sam	oled By	: Not Give	en
Sile A	Rec	os. ulte:	NUL															
Labor	ratory	Reference	ce: 1310	857											Depth ⁻	[m]	: 7.50	
Hole I	No.:		BH1												Depth Ba	ase [m]	: Not Give	en
Samp	ole Re	ference:	15	-											Samp	е Туре	: U	
Soil D	Descrip	ption:	Brow	n CLAY														
Samp	ole Pre	eparation	: Teste	ed in natu	iral co	ndition												
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							1	H V	High Verv	hiah			50 to 70 to	o 70 o 90				
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Note:	Moist	ture Cont	ent by BS	6 1377 - 2:	1990:	Clause	3.2		••				2					
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Pist	Ji	D	ate Repo	rted: 20)/09/20)19	,				Diz	1	> fo	r and o	n behalf	of i2 Ar	nalytical	Ltd GF 236.5
"Opinions an This report m	nd interpretat may not be re ncluded withi	tions expressed here produced other that	e in are outside of the	e scope of the UKAS prior written approv amples submitted fo	Accreditation al of the issuir r analysis	ng laboratory.				an 4 -4	. 1	"Any assessmen	t of compliance wi	th specifications I	based the analytical r	esults in a repor	t take in to account n	o contribution from uncertainty

The results included within the report are representative of the samples submitted for analysis. The analysis was carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland." Page 1 of 1

Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request."



Liquid and Plastic Limits

i2 Analytical Ltd 7 Woodshots Meadow Croxley Green Business Park Watford Herts WD18 8YS



Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Clien Clien	t: t Addr	ess:	Card 4 Go Goda GU7	l Geote dalmin alming 1XW	echnic ng Bua , Surr	cs Ltd sines œy,	s Cent	re, Wo	olsac	k Way	,	7-2. 193	50. Cia	use 4.	o and o	(Client I Jo Date Date	Refere b Nun e Sam Rece	ence: nber: pled: ived:	CG3818 19-5853 05/09/20 06/09/20	81 85 019 019	
Conta	act:		Char	les Ho	oper												Da	ate Te	sted:	16/09/20	019	
Site N	Name:		79 A	venue	Road	1											Sa	ample	d By:	Not Give	en	
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Test	Resi	ults:																				
Labo	ratory	Reference	1310	858													Dep	th Top	o [m]:	10.50		
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				-					Pla	sticity				5	Liquid	Limit						
				С	Clay	/			L	Low					below	35						
				М	Silt					Med	lium				35 to	50 70						
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Liquid and Plastic Limits

i2 Analytical Ltd 7 Woodshots Meadow Croxley Green Business Park Watford Herts WD18 8YS



Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Client:	Card Geote	echnics Ltd		Client Refere	ence: CG38181
Client Address:	4 Godalmir	ng Business Centre, Woo	olsack Way,	Job Nun	nber: 19-58535
	Godalming	, Surrey,		Date Sam	pled: 05/09/2019
	GU7 1XW			Date Rece	ived: 06/09/2019
Contact:	Charles Ho	oper		Date Te	sted: 16/09/2019
Site Name:	79 Avenue	Road		Sample	d By: Not Given
Site Address:	Not Given				
Test Results:					
Laboratory Reference:	1310859			Depth Top	[m]: 13.50
Hole No.:	BH1			Depth Base	[m]: Not Given
Sample Reference:	25			Sample 1	ype: U
Soil Description:	Brown sligh	ntly gravelly CLAY			
Sample Preparation:	Tested afte	er washing to remove >42	25um		
As Received Moist Content [%]	ure	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
23		72	27	45	83



"Any assessment of compliance with specifications based the analytical results in a report take in to account no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request."



Liquid and Plastic Limits

i2 Analytical Ltd 7 Woodshots Meadow Croxley Green Business Park Watford Herts WD18 8YS



Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5 Card Geotechnics Ltd

Client Client	:: Address:	: .	4 Goda Godalr GU7 1	alming I ning, S XW	urrey,	ta ess Cent	re, Wo	olsac	k Way,						Clie C D	ent Ref Job N Date Sa ate Re	erence: lumber: ampled: eceived:	CG3818 19-5853 05/09/20 06/09/19	91 95 019 919
Conta	act:		Charle	s Hoop	er											Date	Tested:	16/09/20	019
Site N Site A	lame:		79 AVE Not Gi	enue Ro ven	bad											Samp	bled By:	NOT GIVE	en
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	d interpretations exp	ressed here in are ou	utside of the sc	ope of the UKAS	Accreditation														

Liquid and Plastic Limits

i2 Analytical Ltd 7 Woodshots Meadow Croxley Green Business Park Watford Herts WD18 8YS



Tested in Accordance with: BS 1377-2: 1990: Clause 4.3 and 5

Clien Clien	t: t Addres	SS:	Card 4 Go Goda GU7	Geotec dalming alming, 1XW	hnics Busin Surrey	Ltd ness y,	Centr	re, Wo	olsa	ck Wa	у,	1577-2	2. 1990	J. Clau	56 4.0			Client J Da [:] Dat	: Refe ob Nu te Sai e Rec	erence umber mpled ceived	: CG38 : 19-58 : 05/09 : 06/09	3181 3535 9/201 9/201	9 9	
Conta	act:		Char	les Hoo	per													C	ate T	ested	16/09	9/201	9	
Site N	Name:		79 Av	venue F	Road													S	Sampl	ed By	: Not C	Given		
Site A	Address	:	Not C	Given																				
Test	Resul	ts:																						
Labo	ratory R	eference:	1310	861														De	pth To	op [m]	2.75			
Hole	No.:		WS1															Dept	th Bas	se [m]	Not C	Siven		
Samp	ole Refe	erence:	3															Sa	ample	Туре	B			
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SUMMARY REPORT

Summary of Classification Test Results

Tested in Accordance with:

Client:	Card Geotechnics Ltd	MC by BS 1377-2: 1990: Clause 3.2; WC by BS EN 17892-1: 2014; Atterberg
Client Address:	4 Godalming Business Centre, Woolsack Way, Godalming, Surrey, GU7 1XW	by BS 1377-2: 1990: Clause 4.3, Clause 4.4 and 5; PD by BS 1377-2: 1990: Clause 8.2
Contact:	Charles Hooper	
Site Name:	79 Avenue Road	
Site Address:	Not Given	





Client Reference: CG38181 Job Number: 19-58535 Date Sampled: 05/09/2019 Date Received: 09/06/2019 Date Tested: 16/09/2019 Sampled By: Not Given

Test results

			Sample	9							Atte	rberg			Density		#	
Laboratory Reference	Hole No.	Reference	Depth Top	Depth Base	Туре	Description	Remarks	мс	wc	% Passing 425um	ш	PL	PI	bulk	dry	PD	Total Porosity	
			m	m				%	%	%	%	%	%	Mg/m3	Mg/m3	Mg/m3	%	
1310854	BH1	2	1.00	Not Given	D	Brown slightly gravelly CLAY	Atterberg 4 Point	24		93	73	27	46					
1310855	BH1	6	2.50	Not Given	U	Yellowish brown CLAY	Atterberg 4 Point	36		100	84	36	48					
1310856	BH1	10	4.50	Not Given	U	Mottled brown CLAY	Atterberg 4 Point	30		100	82	36	46					
1310857	BH1	15	7.50	Not Given	U	Brown CLAY	Atterberg 4 Point	26		100	75	30	45					
1310858	BH1	20	10.50	Not Given	U	Brown CLAY	Atterberg 4 Point	23		100	76	30	46					
1310859	BH1	25	13.50	Not Given	U	Brown slightly gravelly CLAY	Atterberg 4 Point	23		83	72	27	45					
1310860	WS1	1	0.80	Not Given	В	Yellowish brown CLAY	Atterberg 4 Point	29		100	78	28	50					
1310861	WS1	3	2.75	Not Given	В	Yellowish brown CLAY	Atterberg 4 Point	24		100	63	26	37					

Note: # Non accredited; NP - Non plastic

Comments:

Approved:

PL Geotechnical Laboratory Manager

Dariusz Piotrowski

Date Reported: 20/09/2019

"Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report are representative of the samples submitted for analysis. The analysis was carried out at 12 Analytical limited, ul. Plonierow 39, 41-711 Ruda Slaska, Poland."

Page 1 of 1

Geotechnical General Manager

measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request."

"Any assessment of compliance with specifications based the analytical results in a report take in to account no contribution from uncertainty of measurement. Application of uncertainty of

Darren Berrill

Signed:

for and on behalf of i2 Analytical Ltd GF 238.7





Remarks:

Approved:	Dariusz Piotrowski	Signed:	Darren Berrill					
011.	PL Geotechnical Laboratory Manager	778	 Geotechnical General Manager 					
riotuli	Date Reported: 20/09/2019	- sen	for and on behalf of i2 Analytical Ltd GF 184.7					
"Opinions and interpretations	expressed herein are outside of the scope of the UKAS Accreditation.		"Any assessment of compliance with specifications based the analytical results in a report take in to account no contribution from					
This report may not be reprodu	ced other than in full without the prior written approval of the issuing laboratory.	Deve 4 of 4	any assuments of companies with generations of according to the angle of a company which the true cruth line. As					
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The analysis was carried out at	i2 Analytical Limited uL Pionierow 39, 41-711 Ruda Slaska, Poland "	-	estimate or measurement uncertainty can be provided on request.					



Remarks:

Approved:	Dariusz Piotrowski	Signed:	Darren Berrill
OLL.	PL Geotechnical Laboratory Manager	778	 Geotechnical General Manager
Tiotule	Date Reported: 20/09/2019	- the	For and on behalf of i2 Analytical Ltd GF 184.7
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The analysis was carried out at	i2 Analytical Limited. ul. Pionierow 39. 41-711 Ruda Slaska, Poland."	•	estimate of measurement uncertainty can be provided on request.



Remarks:

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011.	PL Geotechnical Laboratory Manager	T	Geotechnical General Manager
Tiotule	Date Reported: 20/09/2019		for and on behalf of i2 Analytical Ltd GF 184.7
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The analysis was carried out at i2 A	Nnalytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland."	-	estimate of measurement uncertainty can be provided on request.



Remarks:

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011.	PL Geotechnical Laboratory Manager	778	Geotechnical General Manager
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The analysis was carried out at i2	Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland."	-	estimate of measurement uncertainty can be provided on request.



Remarks:

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$\bigcirc \downarrow \downarrow$	PL Geotechnical Laboratory Manager	228	 Geotechnical General Manager
Violuli	Date Reported: 20/09/2019	- the	For and on behalf of i2 Analytical Ltd GF 184.7
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The analysis was carried out at i2	Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland."	1 4.90 1 01 1	estimate of measurement uncertainty can be provided on request."



Charles Hooper Card Geotechnics Ltd 4 Godalming Business Centre Woolsack Way Godalming Surrey GU7 1XW

t: 01483 310600 f: 01483 527285 e: charlesh@cgl-uk.com



i2 Analytical Ltd. 7 Woodshots Meadow, Croxley Green Business Park, Watford, Herts, WD18 8YS

t: 01923 225404 f: 01923 237404 e: reception@i2analytical.com

Analytical Report Number : 19-58541

Project / Site name:	79 Avenue Road	Samples received on:	06/09/2019
Your job number:	CG38181	Samples instructed on:	06/09/2019
Your order number:		Analysis completed by:	20/09/2019
Report Issue Number:	1	Report issued on:	20/09/2019
Samples Analysed:	2 soil samples		

Signed:

Zina Abdul Razzak Senior Quality Specialist For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Iss No 19-58541-1 79 Avenue Road CG38181

This certificate should not be reproduced, except in full, without the express permission of the laboratory. The results included within the report are representative of the samples submitted for analysis.





Analytical Report Number: 19-58541

Project / Site name: 79 Avenue Road

Lab Sample Number				1310876	1310877		
Sample Reference				BH1	WS1		
Sample Number				11	3		
Depth (m)				5.00	2.75		
Date Sampled				05/09/2019	05/09/2019		
Time Taken				None Supplied	None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
Stone Content	%	0.1	NONE	< 0.1	< 0.1		
Moisture Content	%	N/A	NONE	20	18		
Total mass of sample received	kg	0.001	NONE	0.87	0.45		

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.7	7.9		
Total Sulphate as SO₄	mg/kg	50	MCERTS	8600	330		
Water Soluble SO4 16hr extraction (2:1 Leachate							
Equivalent)	g/l	0.00125	MCERTS	3.9	0.095		
Total Sulphur	mg/kg	50	MCERTS	3400	120		





Analytical Report Number : 19-58541

Project / Site name: 79 Avenue Road

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1310876	BH1	11	5.00	Brown clay.
1310877	WS1	3	2.75	Brown clay.





Analytical Report Number : 19-58541

Project / Site name: 79 Avenue Road

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP- OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP- OES.	L038-PL	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, and MEWAM 2006 Methods for the Determination of Metals in Soil	L038-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

APPENDIX G

Proposed Development Construction Loads



	1 Marco
	Notes THIS DRAWING IS COPYRGHT OF FORM. DO NOT SCALE FROM THIS DRAWING WORK ONLY TO FRUIDED.
	DIMENSIONS. THE CONTRACTOR IS TO VEREY ALL DIMENSIONS ON SITE BEFORE COMMENSION WORK ALL PERPERSIAN ON STREED FOR
	REPORTED TO THE ENGINEER. THIS DIVISION A WE TO BE THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ANOHTECTS, SERVICES ENGINEERS AND ENDINEERS CARE FOUNDERS CARE FOUNDERS CARE FOUNDERS AND ENDINEERS A
	SPECFICATIONS.
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	IN DESIGNATION (III) MORTAR.
	PARTITION (50x100 C24 STUDS AT 400clc).
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	ALL MASONRY BELOW DPC LEVEL TO BE FROST BESISTANT AND IN DESCRIPTION OF DESCRIPTION
000	LEGEND
	NEW BEAM UNDER
16	DENOTES SPAN OF NEW 50/200 C24
	TIMBER JOISTS AT 4000/c U.N.O.
1 ED	DENOTES SPAN OF NEW CONCRETE SLAB
1 PO	STRUCTURAL COLLEGE CONTRACT
12	MARK SIZE
R	COL C1 200 x 800 C#### CONCRETE COLUMN COL C2 200 x 200 C#### CONCRETE COLUMN
	NOTE: UXO SURVEY MUST BE CARRIED OUT WITH ALL PILE POSITIONS PROBED PRIOR TO PILING
NEW 3500 CONTIG. PILES	0. 025.11
INSTALLED TO PILING CONTRACTORS DETAILS	0L = 235 m/m
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NEW 390th BWK / BLK CAVITY WALL	LL 43 MOIM
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