

NORTHSTOWE Freedom of Information Request - Boreholes

NOR-ARC-P2-XX-XXX-RG-Z-0141-P01

APRIL 2018

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Freedom of Information Request - Boreholes

1 Introduction

This information has been compiled on request of Home England.

The information within this document relates to available borehole data across the Homes England areas at Northstowe.

Information in this report includes the following;

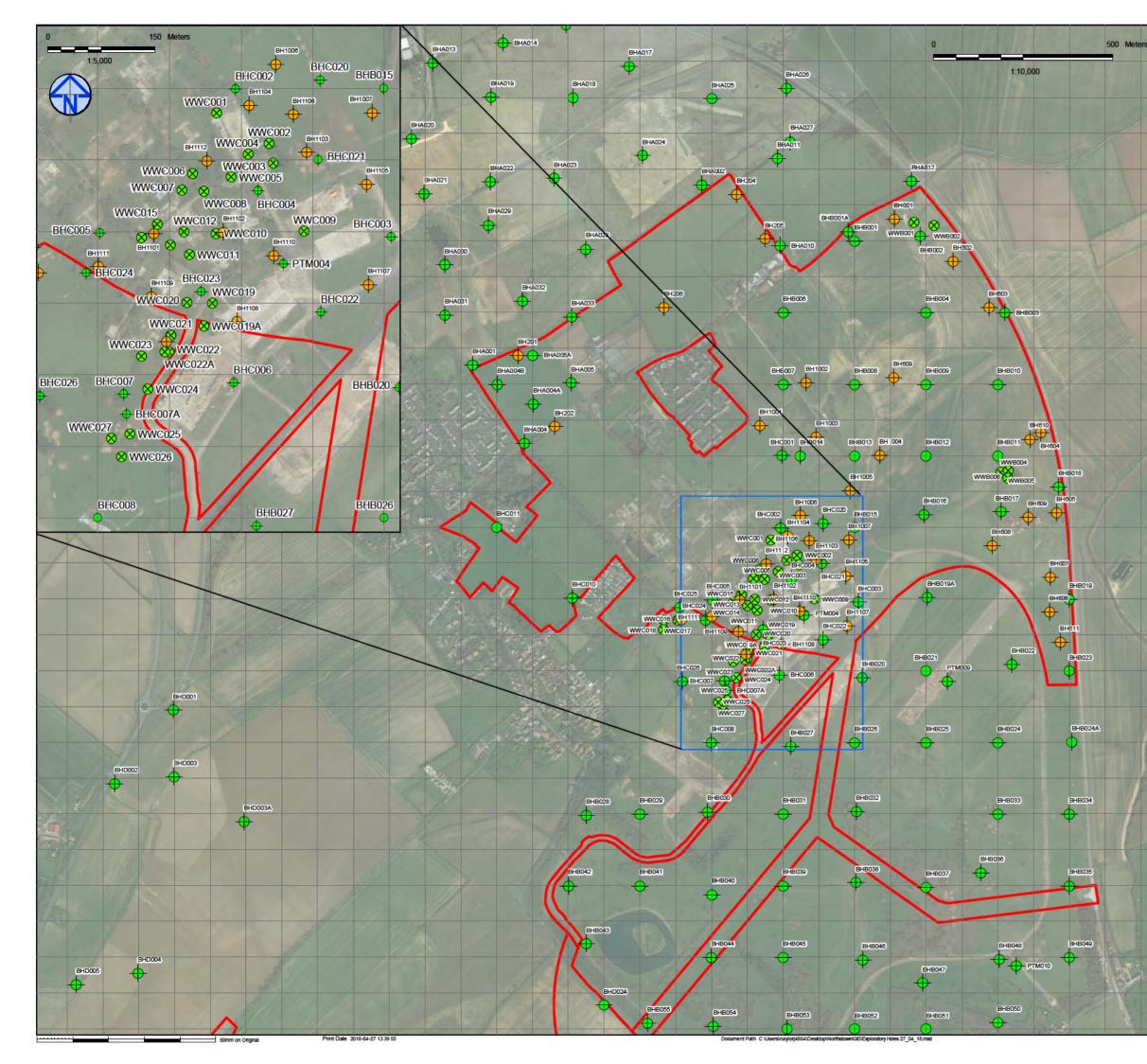
- Plans showing locations of boreholes
- Borehole records / logs
- Groundwater monitoring data

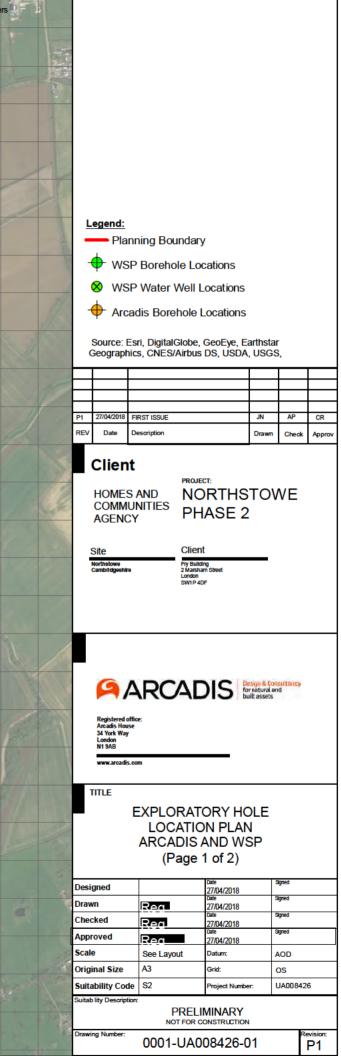
Information has been taken from the following reports;

- 1. WSP (2007), Interim Factual Report, Northstowe, Cambridgeshire, Zone A (Project Number 12170626)
- 2. WSP (2007), Interim Factual Report, Northstowe, Cambridgeshire, Zone B (Project Number 12170626)
- 3. WSP (2007) Interim Factual Report, Northstowe, Cambridgeshire, Zone C (Project Number 12170626)
- 4. WSP (2007) Interim Factual Report, Northstowe, Cambridgeshire, Zone D (Project Number 12170626)
- 5. Arcadis Consulting (UK) Limited (2017), Northstowe Phase 2 Ground Investigation Report, (Report Number UA008426-AFS-GLR-G001)

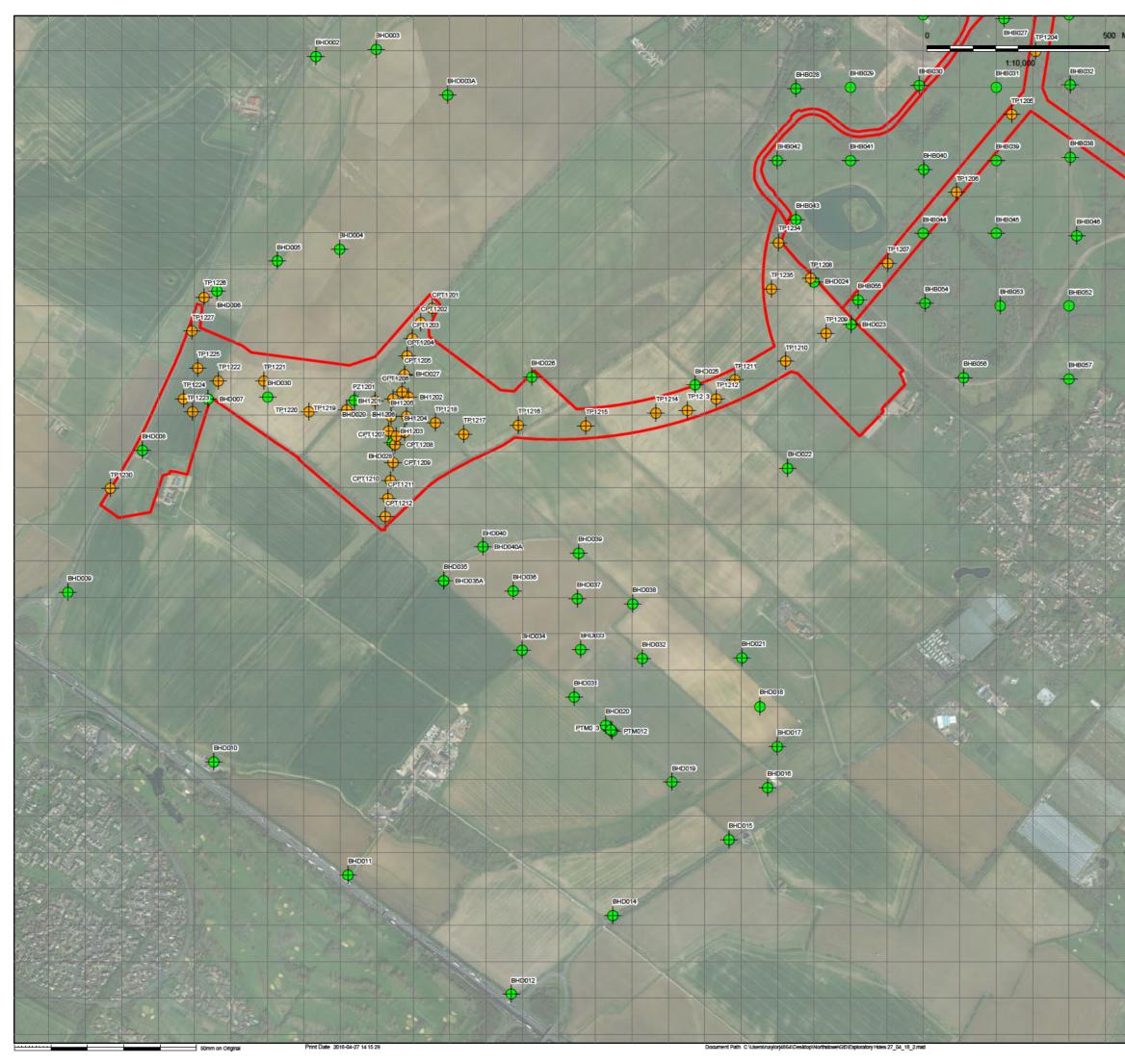
Freedom of Information Request - Boreholes

APPENDIX A Plans





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Freedom of Information Request - Boreholes

APPENDIX B Borehole Logs



Project														E	BOREH	OLE	No
	orths	towe					- 1								BHA	001	1
Job No			D	^{ate} 10)-11 -	-05	Groun		evel (m AOD	-	rdinates (OS						
	1706			1(D-11-	-05		8	.800	E 5	640033.37	72 N 26	6853.581				
Supervis	-	-							Client					Sh	eet		
J	MC /	LF / C	W/I	RLC					Gallaghe	r Estates 8	k English Pa	artnerships			1 c	of 1	
SAMF	PLES	& TE	STS		5					STRA	ТА					Ž	
Depth	Type No	Test Result	P I D Depth	Result ppmv	Water	Reduced Level (r	Depth Thick- ness)				SCRIPTION				Legend	Geology	Instrument/ Backfill
-						F	(0.70)		oft brown sa	ndy TOPS	OIL with roo	ots.			<u></u>	TPS	
- 0.50-1.00	В					<u> </u>	0.70	Fii	m brown me	ottled grey	slightly sand	dy gravelly	CLAY. Grav SITS).	el is			
- 1.00-1.50 -	BSD	2,2,4 2,3,2 N=11					(1.10)						, noj.			TD	
- - -						7.00	1.80		ose orange	brown sar	dv GRAVEI	L. Gravel is	fine to medi	um	0.00		
2.00-2.30	BSD	4,2,2 2,2,3 N=9				6.50	(0.50) 2.30	flir	nt (TERRAC	E DEPOS	TS).				0.0.02	, TD	
-							、 ,.										
3.00-3.50	BBD	2,2,2 3,3,4															
		N=12															
-																	
- 4.00-4.50 -	BBD	5,4,3 3,3,5 N=14			(4.70)												
Ę		11-14				Ē			AMP								
						Ę											
- 5.00-5.50	BBD	3,2,3 3,4,5 N=15				Ē					<u> </u>		l·目·				
						Ē											
- - 6.00	D					Ē	-										
- 0.00						Ę											
6.50-6.90	U	76 blows				Ē											ŀ.₿.
- 7.00	D					1.80	7.00										
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	-					Observa		or			Added		GENE				
Date	Tin	ne	Depth	ם י	epth	asing Dia. mr	wat n Dp	t	From	То	Hours	From	То		REMA		
														No gro	undwater e	encounte	ered.
Date	Tin	ne	Strike	≥ Mi	nutes	Standin	ig Casi	ng	$\left \right $								
All dime	nsions	in met	es	Contra	actor /	Driller	I		Meth	od/Plant U	lsed	1		Logge	d By		
	cale 1:										Cable Perc	ussive Rig			MC)	



Project																	E	BOREH	OLE	No
	orths	towe																BHA	2002)
Job No				^{Date} 10) - 11	-05	Gro	und	Level (r))		dinates (OS						1002	
	1706			1(D-11	-05			6.140			E 5	40672.79	96 I	N 26	7356.337				
Supervisi	-	-		-						ent							Sh	eet		
L		LF / C							Ga	allaghe			English Pa	artner	ships			1 0	of 1	
SAMF	LES	& TE		1	5						S	TRA	TA						2	l nert
Depth	Type No	Test Result	PID Dept	h Result ppmv	Water	Reduced Leve l	11655)						CRIPTION					Legend	Geology	Instrument/ Backfill
-						6.04	0.		Grass o					/ith	reatly	ets (AMPTH			TPS	
- 0.50-1.00	в					-	(0.80)		CLAY F	REWO	RKE	D).		r with	TOOL				AMP	
F						5.24	0.	90						4411				- <u> </u>		
1.00-1.50	BSD	1,2,2 1,1,2					-		Firm be Becomi	coming ing stiff	g stiff f with	depth	ed grey mo (AMPTHIL	L CL	browr AY).	I CLAY.		<u> </u>	-	
		N=6				-	-													l·目·
						-	-													
2.00-2.50	BSD	1,6,8				-													-	[:目:
		4,6,8 N=26																		
- - 3.00-3.50	BSD	3,4,3			-(6.10)													<u> </u>	-	k≣÷
		4,4,3 N=14																		
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	-	0.40															<u> </u>	AMP	[]目:	
4.00-4.50	BSD	6,4,3 3,3,3 N=12																-		
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5.00-5.45 [U	55 blows				-													-	:目:
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Bo	rina I	Proare	ess a	ind Wa	ater	Observa	ations				Chis	elling	a	W	ater	Added		GENE	RAI	
Date	Tin		Dept			asing Dia. m		/ate ⊃pt	r F	rom	1	То	Hours		om	То		REMA		
			•		opui			JUL									No gro	undwater e	encounte	ered.
																	-			
Date	Tin		Strike		n	Ct"														
Dale			SUIK		nutes	Standi		asin	9											
All dime	nsione	in met	res	Contra	ctor /	Driller	1			Meth	i Iod/Pl	lant Us	sed	I			Logge	d Bv		
	cale 1:		-63										Cable Perc	ussiv	e Rig		990	M	C	



Project														E	BOREH	OLE	No
N	orths	towe													BHA	007	2
Job No			C	^{ate} 1	0-11-	-05	Ground		/el (m AOD)		dinates (OS				DU	1003	
	1706			1	0-11-	-05		7.7	710	E 5	39765.08	85 N 26	7661.340				
Supervisi	-	-							Client					Sh	eet		
JI	NC / I	LF / C	W/	RLC					Gallagher	Estates &	Eng l ish Pa	rtnerships			1 c	of 1	
SAMP	LES	& TE	STS		5					STRA	TA					У	ent/
Depth	Type No	Test Result	P I D Depti		Water	Reduced Level	Depth (Thick- ness)				SCRIPTION				Legend	Geology	Instrument/ Backfill
-						Ę	(0.70)	Gra	iss over bro	wn TOPS	OL.				<u>x14</u> . <u>x1</u> .	AMP	
-						7.01									11. <u>24.34</u>		
- 1 <u>.</u> 00-1.50	BED	2,3,6 5,6,6 N=23					-	fine ban	to coarse s	ubangula	r to subrour	nded flint ar	AVEL. Grav nd chalk. Wi (TERRACE	el is th a	0		
- - - -						-	_	021							· · · · · · ·		
2.00-2.50	BED	3,4,5 7,7,7 N=26				- - - - - - -	(3.00)								· · · · · · · · · · · · · · · · · · ·	TD	
- 3 <u>.</u> 00-3.50	BSD	8,8,9 8,10,4 N=31					-								· · · · · ·		
- 3 <u>.</u> 70	D					4.01	3.70	Sof	t to firm gre	V SILT. B	ecoming firr	n to stiff fro	om 6.5m		× ×		
- 4 <u>.</u> 00	Ð	2,2,2 3,3,4 N=12				- - - - - - - -	-	(AN	IPTHILL CL	ΆΥ).	Ū				× × × × × × × × × × × × × × × × × × ×		
5_00	Ð	3,2,3				-	-								× × × × × ×		
- - - - - - -		4,3,2 N=12				- - - - - -	(3.30)								× × × × × × × × × × × × × × × × × × ×	AMP	
- 6 . 50	Ð	5,6,7 9,10,11													× × × × × × × × × × × × × × × × × × ×		
- - - - - - -		N=37			-	0.71	7.00								× ; ,	1	
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						Observa		_		Chiselling			Added		GENE		
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														No gro	undwater e	ncounte	ered.
Date	Tin	ne	Strike	e Mi	nutes	Standir	ng Casin	g									
All dime Sc	nsions ale 1:		res	Contra	actor /	Driller		1	Metho	od/Plant U	sed Cable Perc	ussive Rig	I	Logge	d By MC)	



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Project	orths														BOREH	OLE	NO
	onns	lowe	D	ate			Group	d Level (m AOD)	Co-Or	dinates (O	S)		_	BHA	004	4
	1706	26		1	9-10 9-10		Croun	9,130	. ,		40177.00		6636.000				
Supervis					5-10	-00			lient		40177.00	0 11 20	0000.000	Sh	eet		
•	-		W/F	RLC						Estates &	Eng l ish Pa	artnerships			1 0	f 1	
	-	_							anagrioi		-	annorompo					Þ
SAMF	LES	& IE	PID		ter		Depth			STRA	IA					gy	men -
Depth	Type No	Test Result	Depth	Result ppmv	Water	Reduced Level	(Thick- ness)			DES	SCRIPTION	I			Legend	Geology	Instrument/
						8,73	0.40	TOPSO	JIL						<u>x w</u> <u>x v</u>	TPS	
0.40	D					8,33		DEPOS	SITS).		y gravelly S				:	TD	
0.80	JJJVVD	3,6,11				8.13	1.00				CLAY (TE		EPOSITS). DEPOSITS).		····	TD	
		12,15,12 N=50/			1	7.73	1.40		-	-	•		ACE DEPOS			TD	Į E
1.40 2.30	nnvv	280 4,5,4 3,2,1			Ţ		(1.50)	Dense	Diack an	ia brown g	CE DEPOS	5 13).	· · · · · · · · · · · · · · · · · · ·	TD			
		N=10				6.23	2.90	Danuar	www.collin		soft grey cla	n e un otris (7			· · · · · · · ·		₿
						5.93	3.20	DEPOS			·····	TD	łE				
	JJVVВ	1,1,1 1,3,3 N=8				5.23	(0.70) 3.90	Soft gravelly	ey sandy y pockets	/ CLAY wi s (TERRA	th organic r CE DEPOS	material. Li SITS).	ght grey san	dy		TD	
3.60-3.80 3.90 4.20-4.65	B D U	26 b l ows				4,63	(0.60)	Firm gr	rey blue	organic C	Y).			AMP			
						4.00		Firm b	ue grey	CLAY (AN		LAY).					
4.90 5.00-5.50	111AAB D					3.83	_(0.80) 5.30									AMP	
		5,4,5 N=17					(0.80)	Stiff gre	ey CLAY	(ampth	LL CLAY).					AMP	
6.10 6.30-6.75	D U	40 b l ows			₽	3.03	<u>6.10</u> (0.90)	Stiff da	ırk grey l	aminated	CLAY (AMI	PTHILL CL	AY).			AMP	
7.00	D					2.13	7.00								 		
Bo	pring F					Observ				Chiselling]	Water	Added		GENE		
Date	Tin	ne	Depth		C Depth	Dia_m	m Dpi	F	rom	То	Hours	From	То		REMA		
			e Depth Casing Water Depth Dia.mm Dpt From To Hours From .												dwater seej 3m. Drillers	page at descri	t 1.6m
Date	Tin	ne	Strike	M	inute	s Stand	ing Casir	na									
19-10-06 19-10-06			1.60 6.30		20 20 20	s otanu	ng Casi	<u>e</u> .									
All dime			res	Contra	actor	/ Driller	I		Metho	od/Plant U				Logge	d By	FP	
	cale 1:		es	Contra	actor				Metric		Cable Perc	cussive Rig		Logge		ER	



Project														E	OREH	OLE	No
N	orths	towe													BHA	001	^
Job No			D	^{ate} 23	3-10-	-06	Ground	Leve	el (m AOD) Co-O	rdinates (OS	5)			DIIA	004	~
	1706			23	3-10-	-06		8.9	900	E 5	40202.00	0 N 26	6745.000				
Supervis	-	-							Client					Sh			
JI	MC / I	LF / C	W/I	RLC					Gallaghe	r Estates 8	English Pa	rtnerships			1 c	of 1	
SAMF	LES	& TES	STS		_					STRA	TA					~	ent/
Depth	Type No	Test Result	P I D Depth	Result ppmv	Water		Depth Thick- ness)			DES	SCRIPTION				Legend	Geology	Instrument/ Backfill
-						8.20	(0.70)	Gras med flint	lium sandy	rk brown s / TOPSO I L	lightly clayey Gravel is f	/ slightly gi ine angula	ravelly fine to r to subangula	ar	$\frac{\sqrt{1}}{\sqrt{1}} \cdot \frac{\sqrt{1}}{\sqrt{1}} \cdot \frac{\sqrt{1}}{\sqrt{1}}$	TPS	
-						8.00	0.90	Brov	wn c l ayey	gravelly fin	e to coarse	SAND. Gr	avel is fine to		· <u> </u>	TD	R653
						Ē	(0.70)						DEPOSITS). D. Gravel is fir			тп	r de se
						7.30	1.60	to m	nge brown nedium ang	gular to sul	pangular flint	t (TERRAC		S).		TD	
- 1.50 -	JJJAA							Buff	brown vei	y gravelly	medium to c	oarse SA	ND. Gravel is	fine	0		
-						F	-	to m	iedium ang	gular to sur	bangular film			5).	· · · ·		
						E									•••••		
Ē						E	(2.40)									TD	
- 3.00	JJJV					F	-								 	ιD	
- 0.00						E									· · · ·		60g
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-					-	4.90	4.00								· · · · · · · · · · · · · · · · · · ·		603
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Date	Tin		Depth			asing Dia. mr		r -	From	To	J Hours	From	To		GENE REMA		
Daie			Jopu		epth	Dia.mr	n Dpt	$-\ $	0.11	10	10013	. 1011		rillere	descriptio		
			.														
Date	Tin	ne	Strike	€ Mi	nutes	Standin	ng Casin	3									
A II - !!	<u> </u>			Contra	actor /	Driller			Math	od/Plast !!	sed			0000			
All dime So	nsions ca l e 1:6		res	Contra	ICIOF /				IVIEth	od/P l ant U	sed Cable Perci	ussive Rig		_ogge	DRILI	ER	



Project														B	OREH	OLE	No
	orths	towe												_ F	3HA	004	R
Job No				^{)ate} 23	3-10-	-06	Groun	d Level (dinates (OS			-	51174		
	1706			2:	3-10	-06		9.100		E 5	40102.00	0 N 26	5800.000	She			
Supervis	-	uneer LF / C							ient alloghou	r Estatos 9	English Dor	taorahina		Sne	ει 1 c	.f 1	
L								Ga	allagner		English Par	therships			10		
SAMF	PLES	& TES			ter		Danth			STRA	TA					gy	nent
Depth	Type No	Test Result	PID Depth		Water		Depth hick- ess)			DES	SCRIPTION				Legend	Geology	Instrument/ Backfill
-						Ē	0.70)	TOPSC	DIL					•	<u></u>	TPS	665
0.50	JJJVV					8.40	0.70								<u>\ 17</u> . \ 14		
-						8.20	0.90				(TERRACE				<u> </u>	TD	
-						7.80	1.30		-		-			15).	· · · · · ·	TD	
2.00	1117/						2.20)	Gravel very gra brown a	is fine ṫ avelly fr and l igh	o medium rom 1.6m v	vith thin band thinly lamin	ubangular ds or pock	flint. Becominets of orange	ng .		TD	
- 3.50	JJJVV					5.60	3.50		0.1011.00	ndumodi					. a .		
- 0.00	00000					5.10	0.50) 4.00	Gley G	аусу за	andy medic				3).		TD	
-						-											
	pring F	Proare	88	nd Wa	ater		ions			Chiselling		Water	Added		GENE	RAI	
Date	Tin		Deptł	_		asing Dia.mm	Wat	er F	rom	To	Hours	From	To		GENE REMA		
Date 20-10-06 20-10-06	Tin		<u>Strike</u> 1.70 2.20	e Mi	epth nutes 20			ng						Groundw Groundw	vater see vater enc ery slow.	page at ountered	d at
	<u> </u>						2.0		B.4 - 12						D.:		
	I dimensions in metres Scale 1:62.5								weth	od/P l ant U	sed Cable Percu	ussive Rig		Logged		ER	



Project														E	BOREH	OLE	No
N	orths	towe													BHA	00	5
Job No			C	Date 18	8-10	-06	Ground	l Lev	/el (m AOD)	Co-Oi	rdinates (OS	S)			DU)
	1706			18	8-10	-06		9.4	450	E 5	40308.00	0 N 26	6804.000				
Supervisi	-	-							Client					Sh	eet		
JL	NC / I	LF / C	W /	RLC					Gallagher	Estates &	English Pa	rtnerships			1 c	of 1	
SAMF	LES	& TE	STS		L					STRA	TA					~	ent/
Depth	Type No	Test Result	P I D Dept		Water		Depth (Thick- ness)			DES	SCRIPTION				Legend	Geology	Instrument/ Backfill
- - -						8.85	(0.60)	то	PSOIL						$\frac{\frac{\sqrt{1}}{\sqrt{1}}\cdot\frac{\sqrt{1}}{\sqrt{1}}}{\frac{1}{\sqrt{1}}\cdot\frac{\sqrt{1}}{\sqrt{1}}\cdot\frac{\sqrt{1}}{\sqrt{1}}}$	TPS	
0.60	D					8.55	0.90	Bro	wn very c l ay RRACE DE	/ey mediu	m SAND. O	ccasional	very fine grav	el	÷	TD	
- 0.90 - 1.00-1.50	B B	5,7,6				8.15	1.30	Der	nse brown/g	rey slight	y clayey slig	htly gravel	ly medium SA	ND.		TD	
-		6,5,9 N=26							avel is fine (1 nse grey and				ERRACE	/	0.00		
-						-			POSITS).			() () () () () () () () () ()			0 0 0 0 2 0 0 0 0		
2.00-2.50	IJЛЛЛВ	7,10,8 8,6,6			<u>₹</u> = 2 <u>₹</u>	-	-								0.0.0 0000		
		N=28			Ŧ	-									0 1.0%		665
-						-									000		
3.00		10,15,15 16,4,0	i			-	(3.70)								0000	TD	
		N=35/ 160													0000		
						-									01.01		
4.00		6,8,9				-									.0 0 0		
-		12,15,14 N=50/ 285	-			-									0.000		683
-		200													00.00		
- 5.00-5.45	JJJVV	3,3,3				4.45	5.00	Me	dium dense	brown and	d grey grave	lly mediur	n SAND		. <u>0.0.</u> 0.		
-		4,4,3 N=14				-		(TE	RRACE DE	POSITS).	0,00				· · · · · · ·		
-						-									. °		
- 6.00		2,2,3				-	(2.00)								· · · · · ·	TD	
-		4,4,3 N=14				-									0 		
-						-											668
- 7.00	D					2.45	7.00										6624
- /.00						-											
-						-											
-						-	- -										
-						-											
						-											
- -							: _										
-						-											
						-											
-						-	_										
Во	ring F	Progre	ess a	and Wa	ater	Observa	ations		C	Chiselling	3	Water	Added		GENE	RAL	
Date	Tin	ne	Dept	h D	Ca epth	asing ∣Dia.m	m Wate	r	From	То	Hours	From	То		REMA		
															water see		
														2.40m ·	lwater enc - slow. Dril		u al
														descrip	wons.		
Date	Tin	ne	Strike	e Mi	nutes	Standi	ng Casin	g									
18-10-06			2.00)	20												
18-10-06			2.40		20	1.95	2.30										
All dime Sc	nsions cale 1:6		res	Contra	actor /	Driller			Metho	od/P l ant U	sed Cable Perci	ussive Rig		Logge	^{d By} DRILI	ER	



Project															E	BOREH	OLE	No
N	orths	towe														BHA	005	^
Job No			D	^{ate} 19	9-10	-06	Groun	d Le	evel (m AO	D)	Co-Or	dinates (OS	S)			DNA	005/	A
	1706			19	9-10	-06		8	.960		E 54	40200.00	0 N 26	6881.000				
Supervisi	ing En	gineer							Client						Sh	eet		
JL	NC / I	LF / C	W/I	RLC					Gallagh	ier E	states &	English Pa	rtnerships			1 c	of 1	
SAMF	LES	& TES	STS		L						STRA	TA						ent/
Depth	Type No	Test Result	P I D Depth	Result ppmv	Water		Depth (Thick- ness)				DES	CRIPTION				Legend	Geology	Instrument/ Backfill
-							(0.60)	ТС	OPSOIL								TPS	
- - -						8.36	0.60									<u> </u>		609
						8.16	0.80	⊢ır DE\∕	m brown v EPOS I TS).	/ery	sandy sli	ghtly gravel	IIY CLAY(IERRACE	/	<u></u>	TD TD	
- 0.90 -	JJJVV					7.86	- 1.10	\ Or	ange brow	/n sli	ightly clay	/ey gravelly	SAND (T	ERRACE	/	000		
-					Ť		(0.90)		EPOSITS). aht arev br		SAND a	nd GRAVE	L (TERRA		/	0 1.01	TD	
					2 1 ▼∑	6.96	2.00	-15	gin groy or	•••••	0, 110 0		_ () _) ()		0).	· · · · · · · · · · · · · · · · · · ·	,	
- 1.90	JJJAA				<u> </u>	0.90	2.00	Lig	ght grey br	own	sandy m	edium GRA	AVEL (TEI	RRACE		000		
-								DE	ÉPŐSITS).	•						0 1.0%	•	
-																· · · · · · · · · · · · · · · · · · ·		
-							-(2.00)									000	TD	669
-																0 0 0 0 0 0 0		
-																0.00		
-						4.96	4.00									000		19931
-																		
-																		
-							_											
-																		
-																		
-																		
-																		
-																		
-																		
							-											
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-							-											
- - -																		
-																		
-							_											
-																		
-																		
-						-												
Во	ring I	Progre	ess a	nd Wa		Observa				Cł	niselling		Water	Added		GENE		
Date	Tin	ne	Depth	ם י	C epth	asing Dia. m	m Wat	er t	From		То	Hours	From	То		REMA	RKS	
																lwater see lwater enc		
															2.0m -	very slow.		al
															descrip	uons.		
Date	Tin	ne	Strike	e Mi	nutes	s Standi	ng Casi	ng	†									
19-10-06			1.50						İ.									
19-10-06			2.00		20	2.00	1.8	U										
	mensions in metres Contractor / Driller								Me	thod	I/Plant Us				Logge	d By		
Sc	cale 1:0	e 1:62.5									(Cable Perci	ussive Rig			DRILI	.ER	



Project										BORE	IOLE	No							
	orthst	towe															BH	4006	3
Job No			D		7-10		Groun		el (m AOI	D) (dinates (. ,				0		
	17062			2.	7-10	-06		8.2			E 54	40494.	248	N 2	67004.233		neet		
Supervisi	-	_F / C	.						Client Gallaghe	or Ecto	too 8	English	Dort	orchin	-	5		of 1	
				NLC					Gallayin				Fall	leisnip	5				4
SAMP	LES	& TES			ter		Depth			S	TRA	TA						9 S	meni
Depth	Type No	Test Result	P I D Depth	Result ppmv	Water		(Thick- ness)					CRIPTI					Legend	U 0	Instrument/ Backfill
- - - -						7.83	0.40	Gras sand	d TOPSC	ark bro IL. Gra	wn cla avel is	ayey slig fine to r	ihtly (nedii	gravelly um ang	fine to medi ular to subai	ium ngu l ar	1/.x.1/	TPS	
0.70-1.00	JJJV				1	7.53 7.33	0.70 0.90	Brov	wn clayey ular to sul	r fine to	o med	ium SAN		Fravel is	s fine to med	lium	0000		
- 1.00		3,4,4 3,2,3 N=12			¥ _	6.73	(0.60) 1.50	Med		e buff	and b	rown ve	ry sa	ndy GF	AVEL Grav	vel is		TD	
- 1.80-2.00 - 2.00	JJJA	3,3,5				6.23	(0.50) 2.00	Buff	and brow	el is fin	e ang	o very gr ular to si	avell <u>i</u> ubroi	y medii. unded f	im to coarse lint and chal] k		TD	
-		5,5,7 N=22					(1 40)	Ligh	t grey fine	e to me		SAND (TER	RACE	DEPOSITS)]	/		
- 3.00		3,3,4 4,4,4				1 83	(1.40) No core recovery 4.83 3.40 (0.50) Firm to stiff dark grey sandy slightly gravelly CLAY. Gravel angular to subrounded flint and siltstone (AMPTHILL CLAY) - Stiff grey CLAY (AMPTHILL CLAY).												
-		N=16				4.00		Firm	to stiff d	l is fine	† <u> </u>	AMP	1:目:						
-						4.33	3.90	-								. T).			[:目:
4.00		2,2,3 5,5,6 N=19					(1.10)		giey OL	עורען דר			•).					AMP	
-						3.23	5.00												
5.00	ring F	3,3,4 4,5,5 N=18	۵۵ ۵	nd Wa	ater	Observa	ations			Chis	ellino	1		Wate	r Added		GENI		
B0 Date	Ting F		ss a Depth			Observa asing ⊥Dia. mi	ations	er	From	-	eiiing • _o) Hours		From	r Added To		GENE REMA		
Date 27-10-06	Tim		Strike	e Mi	nutes			<u>t</u>	1 1011		5	TIOUIS	,	1011		1.0m.	dwater en Borehole w sample i	countere drilled by	
	All dimensions in metres Scale 1:62.5								Met	hod/Pl		sed rchway (Comp	betetor	Rig		ed By L	F	



Project														E	BOREH	OLE	No
N	orths	towe													BHA	007	7
Job No			D	ate 2	7-10-	-06	Groun	nd Level (r			dinates (OS					1001	
-	1706			2	7-10-	-06		8.562		E 5	40740.58	0 N 26	7018.237	0	1		
Supervis	-	gineer LF / C'	A/ / F					_	ent	- Cototoo 9	English De	utus a va la iva a		Sn	eet	of 1	
				τLC				Ga	allagne		English Pa	nnersnips			10		5
SAMF	PLES	& TES			fer		Depth			STRA	TA					gy	meni
Depth	Type No	Test Result	P I D Depth	Result ppmv			(Thick- ness)				SCRIPTION				Legend	Geology	Instrument/ Backfill
0.00-0.40	JJJV					8.16	0.40	MADE clay. G	GROU ravel is	ND: Grass s fine to me	over dark b dium angul	rown sligh ar to suba	ly sandy grav ngular flint,	velly		MG	
0.40-1.00	JJJV					7.86	0.70	granite			- hy cliabtly a		Y (TERRAC	/		TD	
							_(0.50) 1.20	\\DEPÕS	SITS).			-				TD	
- 1.00		2,2,1 1,1,2				L			stiff bro	own mottle dv with der	d orange brooth (TERRA	own slightl CF DFPO	y sandy CLA` SITS)	Y. /	<u> </u>	TD	:目:
Ē		N=5				7.06-	1.50	Orange	brown	slightly cla	vey gravelly		edium SAND	/	/		k:≣:
							-			EPŎSÍTS). ev mottled		Y Slightly	sandy in p l ac	/			:==:
2.00		1,2,2 2,3,4				Ē		with fine	e to co	arse seleni	te crystals (AMPTHILL	CLAY)				ŀ:≣:
		N=11				Ē	(2.20)									AMP	[:目:
-						Ē	()									,	k: E:
3.00		3,3,3 4,5,6				Ē	-								<u> </u> -		[:目:
Ē		N=18				4 96	2 70								[<u> </u>		l:目:
-							0.70										
-					4.86 3.70												
						Ē											
Ē						Ē											
-						-											
-						Ē											
Ē						Ē											
Ē						Ē	-										
E						E											
						E											
-						Ę	-										
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-						Ē											
Ē						Ę											
E						E	_	<u> </u>									
	-				ater (Observa	ations			Chiselling			Added		GENE		
Date	Tin	ne	Depth	ם י	epth	asing Dia. mr	n Dp	bt F	rom	То	Hours	From	То		REMA		
														No gro Borehc	undwater e le drilled b	encounte y windo	ered. w
															rig - refus		
Date	Tin	ne	Strike	e Mi	inutes	Standir	ng Casi	ing									
All dimensions in metres Scale 1:62.5									Meth	nod/Plant U				Logge	d By LF	-	
S	cale 1:	o∠.5							1	A	rchway Con	npetetor R	ig		나	-	



Project														E	BOREH	OLE	No
N	orths	towe													BHA	005	2
Job No				^{Date} 2	7-10-	-06	Ground				dinates (OS					1000)
	1706			2	7-10-	-06		7.338		E 5	40505.36	3 N 26	7202.158				
Supervis	-	-						Cli	ent					Sh	eet		
JI	MC / I	LF / C	:W /	RLC				Ga	llagher	Estates &	English Pa	rtnerships			1 c	of 1	
SAMF	LES	& TE	STS		L					STRA	TA						ent/
Depth	Type No	Test Result	PID Dept				Depth (Thick- ness)			DES	SCRIPTION				Legend	Geology	Instrument/ Backfill
-						6.94	0.40	Grass c TOPSC	ver firn	n to stiff da avel is fine	rk brown sa to medium	andy slightl angular flir	ly gravelly cla nt	ау	$\frac{\sqrt{1}}{\sqrt{1}} \frac{\sqrt{1}}{\sqrt{1}}$	TPS	
0.50-0.70	JJJV							Stiff bro	wn mo	ttled arev s	lightly sand	lv sliahtlv a	ravelly CLAY	/ with	<u></u>		
-						E		and flint	. Becor	ming grey	mottled orai	nge brown	from 0.9m	ак			
1.00		5,5,6 5,6,7				F	(1.40)	(TERR/	CE DE	EPŐSÍTS).		0				TD	
-		N=24															
-						5.54	1.80										
- 2.00		2,3,3				ļ	-	Stiff to v medium	ery stif	f grey mot arse se l enit	tled brown (e crystals f	CLAY with Becoming	occasional very stiff and	arev	<u> </u>		
		3,4,5 N=15						from 3m	ı. Dark	grey and i	relic fossils	(ammonite	s) present fro	om	<u> </u>		
_						E		4.0-5.0r	n (TER	RĂĂĊE DE	POSITS).				<u> </u>		
-						F											
3.00		24,3,4 5,5,6				F	-								<u>[</u>		
-		N=20					(3.20)									TD	
-																	
- 4.00		3.3.4				ļ	-										
-		3,3,4 5,5,6 N=20													[
						E											
-						2.34	5.00								[<u> </u>		
- 5.00		3,3,4 4,6,6				Ē											
-		N=20				F											
-																	
-						F	-										
-																	
-						Ē											
-						Ē	_										
-						Ē											
						Ē											
-						F											
-							-										
-																	
-						Ē											
-			1			E	_										
						F											
			1			F											
-			1			F											
ER				and \//	l ater (Observa	tions			Chiselling		W/stor	Added			י א ס	
Date	Tin		Dept	h		asing		╌╢╴╴	rom	То	Hours	From	To		GENE REMA		
Date			Dopi	·· [Depth	Dia. mi	n Dpt	- '		10	10013	. 1011		No area	undwater e		ared
														Boreho	le drilled b		
														sample	ng.		
Date	Tin	ne	Strik	e M	inutes	Standir	ng Casin	<u>]</u>									
All dimensions in metres Scale 1:62.5									Meth	od/Plant U		nnototo- D		Logge	d By		
Sc	cale 1:0	52.5								A	rchway Cor	npetetor R	ıg		LF		



Project														E	BOREH	OLE	No
N	orths	towe													BHA	000	2
Job No				Date 2	7-10	-06	Groun		evel (m AOD)		dinates (OS	•				1003)
	1706			2	7-10	-06		6	.390	E 5	40711.54	1 N 26	7197.866				
Supervis	-	-		-					Client					Sh			
		LF / C			1	1			Gallagher		English Par	tnerships			1 c	ot 1	
SAMF	PLES	& TES		1	e					STRA	TA					λſ	nent
Depth	Type No	Test Result	PID Depti		Water	-	1633)				SCRIPTION				Legend	Geology	Instrument/ Backfill
0.20-0.40	111///					6.34/ 5.79	0.05 (0.55) 0.60	∖⊤C Sti	ass over dark DPSOIL. Grav iff dark brown	el is med slightly s	ium angular andy slightly	flint. gravelly	CLAY with fin	/		TPS TD	
- 1.00		2,2,3 4,5,12 N=24				4.89	(0.90) <u>1.50</u>	∖0.8 Sti in	5m (TERRAC iff to very stiff places with se	E DEPOS grey moti elenite cry	SITS). tled orange/t /stals (AMP1	prown CL	•	andy		AMP	
- 2.00		2,2,2			Ţ	4.29	(0.60) 2 <u>.</u> 10	gra	avel (ĂMPTĤ	ILL CLAY).		to coarse ang	gular	× × × × × × × × × × × × × × × × × × ×	AMP	
2.30-2.60	JJJA	4,4,6 N=16						pla	iff to very stiff aces with sele lenite crystals	nite cryst	als. Slightly :	LAY. S l ig sandy in p	htly sandy in places with				
- 3.00		2,2,3 3,5,5 N=16					(2.90)									AMP	
4.00		15,40,8 6,5,6 N=25															
5.00		3,3,4 4,5,6				1.39	5.00										
Bo	pring F	Proare		Ind Wa	ater	Observa	tions			hiselling	1	Water	Added		GENE	RAI	
Date	Tin		Deptl	L		asing		er	From	То	Hours	From	To		REMA		
Date	Tin		Strike											2.0m. E	lwater enc Borehole di sample rig	ountere	d at
27-10-06			2.00		nutes	s Standin		чy									
All dimensions in metres Contractor / Driller								Metho	d/Plant U				Logge	d By			
Scale 1:62.5										A	rchway Com	petetor R	ig		LF		



Project														B	OREH	OLE	No
N	orths	towe													BHA	010	`
Job No					6-10		Groun		el (m AOD		dinates (OS						,
	1706			1	7-10	-06		6.0	033	E 5	40891.15	6 N 26	7187.474				
Supervisi	-	-							Client					She			
JI	NC / I	LF/C	:W/	RLC					Gallagher	Estates &	English Pa	rtnerships			1 c	of 1	
SAMP	LES	& TE	STS		5					STRA	TA					٧	ent/
Depth	Type No	Test Result	P I D Dept		Water	Reduced Level	Depth (Thick- ness)			DES	SCRIPTION				Legend	Geology	Instrument/ Backfill
-						5,63	0,40	TO	PSO I L.						<u>x 1. x 1</u> .	TPS	
E	1))//D					5,23	0.80	DEF	POSITS).			-	(TERRACE		<u></u>	TD	
- 0.80 - 1.00-1.50	D B	1,3,6				5.03	1.00	Firm	n grey brow POSITS).	n slightly s	andy s l ight	y gravelly	CLAY (TERR/	ACE	<u> </u>	TD	
-		8,8,9 N=31					(1.00)			sandy CL	AY (AMPTH	ILL CLAY).		<u> </u>		:目:
-							(1.00)								<u> </u>	AMP	
						4.03	2.00	0.17		-							÷≣÷
2.00-2.45	U	25 blow:	5				-	Stiff	f blue grey	CLAY (AN	IPTH I LL CL	AY).			<u> </u>		
-																	[:目:
2.70 、	11VVD						(0.00)								<u> </u>		: E:
3,10	D						-(2.00)									AMP	! 目:
3.20-3.65	U	30 b l ow:	s														::=::
-						0.00									<u> </u>		[目]
-3.90 4.00-4.45	D U	42 b ow:				2.03	4.00	Stiff	f grev CLA	/ with thin	weak siltsto	ne bands	(AMPTHILL				:8
4.00	Ď		1			1.53	(0.50) 4.50	CL/	ΑΫ́).							AMP	目の
4.50	D						-	Stiff	f grey CLA	(ampth	LL CLAY).						
- 5.00	111VV	1,2,3															
- 5.00	33344	4,4,5 N=16					-										
5.00-5.50	в	11-10															言い
-							(2.50)								<u> </u>	AMP	
- 6.20-6.65	U	45 blow:															目
															<u> </u>		
-						-0.97	7.00								<u> </u>		
-6.90 7.00	D	2,3,3				-0.07	: 7.00										· []·
-		5,6,6 N=20															
-																	
-							-										
-							-										
- -																	
-																	
-																	
-																	
-																	
Во	rina F	Progre	ess a	and W	ater	Observa	ations		(Chiselling	1	Water	Added		GENE	RΔI	
Date	Cooing									То	Hours	From	То		REMA		
					epui								1	No grou	undwater e	encounte	ered.
														Drillers	descriptio	ns.	
Data	T :		01-1														
Date	Tin	e	Strik		nutes	s Standi	ing Casir	g									
All dime	neione	in met	TOC	Contra	actor	/ Driller		11	Meth	od/Plant U	sed			Logge	d By		
	nsions alle 1:0		185	Contra					Weth		Cable Perc	ussive Rig				ER	



Project															E	BOREH	OLE	No
	orths	towe					-									BHA	011	1
Job No				^{Date} 1	7-10	-06	Groun		vel (m AO	D)		dinates (OS						•
	1706			1	7-10	-06		5.	434		E 5	40884.07	7 N 26	7430.652		<u>.</u>		
Supervisi	-	-							Client						Sh	eet		
L		LF / C							Gallaghe			English Pa	irtnerships			1 0	of 1	
SAMP	PLES	& TES		-	ы.					5	STRA	TA					λ	nent
Depth	Type No	Test Result	P I D Dept		Water	Reduced Level	Depth Thick- ness)				DES	SCRIPTION				Legend	Geology	Instrument/ Backfill
-						4 00	(0.50) 0.50	ТС	PSOIL.							<u></u>	TPS	683
0.50	D					<u>4.93</u> 4.63	0.50	Fir	m to stiff g	rey br	rown C	LAY with ro	ootlets (TE	RRACE			TD	
- 0.80	111/VD					4.03	1.00	VDE	POSITS).		hthu ara				<u></u>	<u> </u>	TD	
- 1.00 - 1.10-1.60	D B	2,2,3				-						IPTHILL CI			5). /			
		3,3,4 N=13				Ę			0		,		,					
- - 1.80 、	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					Ē	(0.00)									<u> </u>		
2.00-2.45	U	18 blows				F	(2.00)										AMP	
- 2.50	D					Ē												663
2.30						2.43	3.00											603
3.00-3.50	в	1,1,2				2.45		Fir	m to stiff g	rey C	LAY.E	Becoming v	ery stiff wit	h depth		==		
		2,2,3 N=9				Ę		(Al	MPTHILL	CLAY).							
5 3.40	JJV					Ē												
- 4.00-4.45	U	27 blows				-												
-						Ē												
-						Ē												
- 4.90	D					F	(4.00)										AMP	663
5.00-5.50 -	В	2,2,4 3,5,5				E												603
-		N=17				Ē												
5.80-6.00	ЛЛЛЛВ					Ē										<u> </u>		
-						Ē										<u> </u>		
- 6.30-6.75 -	U	35 blows				Ē												
						-1.57	7.00											
7.00	D					E												
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E Ro	rina F) Droare	55 2	Ind W	ater (Observa	tions			Chie	selling	n	Water	Added		GENE	<u>م</u>	
Date	Boring Progress and Water Observations ate Time Depth Casing Depth Water									-	То	Hours	From	To		REMA		
	Deptn Dia. mm Dpt														No gro	undwater e	encounte	ered.
															Drillers	descriptio	ns.	
Deta	Tin		C 4''	_		0												
Date			Strike		nutes	Standir	ig Casi	ng										
All dime			res	Contra	actor /	Driller			Met	hod/F	Plant Us		·		Logge	d By		
Sc	cale 1:0	62.5										Cable Perc	ussive Rig			DRILI	-EK	



Project														B	OREH	OLE	No
N	orths	towe					_								BHA	012	,
Job No				Date 18	8-10	-06	Groun		el (m AOD		rdinates (OS						-
12	1706	26		18	8-10	-06		5.5	92	E 5	41259.10	04 N 26	7367.304				
Supervisi	-	-							Client					She	eet		
JI	NC /	LF / C	W /	RLC					Gallagher	Estates 8	English Pa	irtnerships			1 c	of 1	
SAMP	LES	& TE	STS							STRA	TA						ent/
Depth	Type No	Test Result	P I D Dept		Water		Depth Thick- ness)			DE	SCRIPTION	l			Legend	Geology	Instrument/ Backfill
-							(0.60)	TOF	SOIL.						$\left[\frac{\sqrt{1}}{\sqrt{1}}, \frac{\sqrt{1}}{\sqrt{1}}\right]$	TPS	
						4.99	0.60							~-	<u> </u>		
E	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1				4.69	0.90		i grey/brow POSITS).	/n CLAY w	/ith occasior	nal fine gra	vel (TERRA	CE /	===	TD	
- 0.90 - 1.10-1.60	D B	1,2,2				4.49	1.10	Firm	to stiff ligh		y CLAY (AN				<u> </u>	AMP	
-		2,2,3 N=9						Firm	to stiff b l u	e/grey and	d brown CL/	AY (AMPT	HILL CLAY)	•			[:目:
-						Ē	(1.00)										
- 2.00	00 00-2.45 U 38 blows															AMP	[:目:
2.00-2.45	2.00-2.45 U 38 blows																
	70 D														==		[:目:
- 2.70								Firm	grey CLA	Y (AMPTH	HILL CLAY).						
- 3.00-3.50 、 -	IJJVVB	3,4,4					(0.90)								<u> </u>	AMP	
-		N=14				1.99	3.60										
- - 3.80	D					1.69	3.90	-			AMPTHILL					AMP	
4.00-4.45		34 blows	5			E		Firm	grey CLA	Y (AMPTH	HILL CLAY).						ŀ: ∃:
-						-	(1.00)								[AMP	
- - 4.70	D						4.90										:目:
4.90	D					0.69-	4.90	Stiff	dark grey	aminated	CLAY (AMF	PTHILL CL	AY).		==		
5.00-5.50 -	В	1,2,3 3,4,3				Ę					·						[:目:
F		N=13													[
F						F	.(2.10)									AMP	1:目:
F						F	.(2.10)									/	
6.30-6.75	U	35 blows	5														[:目:
- 6.80 - 7.00	D D					-1.41-	7.00										<u>;</u> .⊟.
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F						F											
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E						E											
Во	Boring Progress and Water Observations									Chiselling	g	Water	Added		GENE		
Date	e Time Depth Casing Wate Depth Dia.mm Dpt								From	То	Hours	From	То		REMA	RKS	
															undwater e descriptio		ered.
														Drillers	descriptio	ns.	
Date	Tin		Strike	- NA:	nu+	Ctordin	iq Casii										
	1 10		JUIK		nutes	s Standir											
All dimensions in metres Contractor / Driller							Math	od/P l ant U				Logge	d By				
All dimensions in metres Scale 1:62.5										Cable Perc	ussive Rig				ER		



Project															E	BOREH	OLE	No
N	orthst	towe														BHA	011	
Job No			D	^{ate} 20	0-07-	-07	Groun	d Lev	el (m AOI	D) (Co-OI	dinates (OS	6)			DUb		•
12 ⁻	17062	26		20	0-07-	-07		8.4	467		E 5	39921.49	7 N 26	7697.705				
Supervisi	ing Eng	gineer							Client						Sh	eet		
JI	NC / I	LF / C	W/F	RLC					Gallaghe	er Esta	ates &	English Pa	rtnerships			1 o	f 1	
SAMP	LES	& TES	STS							S	TRA	TA						ent/
Depth	Type No	Test Result	P I D Depth	Result ppmv	Water	Reduced Level	Depth (Thick- ness)				DES	SCRIPTION				Legend	Geology	Instrument/ Backfill
0.00-0.30 0.30-0.80	B B					7,67	(0.80) 0.80	sub 0.30 SAN	angular fi 0 mbgl, be ND, Grave	int with ecomin el is fin	n root ig ora ie to n	ets (TERRA nge brown v nedium ang	CE DEPC very clayey ular to sub	slightly grave angular flint	lley		TD	
- 1.00-1.50	в						(1.10)	Gra	t Orange I vel is fine lk (TERR/	to me	dium	subangular	sandy ver to rounded	y gravelly CLA d flint with rare	∖Y. ∋		TD	
1.50-2.00	SBT	2,2,5 6,8,10			⊉	6.57	1.90	1,50	0 mbg i , be	ecomin	ng firm	۱.						
	0.007	N=29			Ţ		(0.80)	med	dium dens dium. Gra RRACE D	vel is f	fine to	medium an	and GRAV Igu l ar to su	/EL. Sand is ubangular of fl	int	· · · · ·	TD	
- 2.50-3.00	50-3.00 CBT 4.5.2 2.3.5 N=12 5.77 2.70									y CLA	Y with	rare fossils	(AMPTH	LL CLAY).				
- - -																		
-																		
- 3.80-4.00	В	45 blows U/100 failed					-											
		between 3.8																
-		and 4,3					(4.20)										AMP	
_ 4.50-5.00	в	49 blows U/100					(4.30)										AIVIP	
-		failed between					-											
-		4.5 and					-											
-5.00-5.50	SBPT	5 1,1,2 2,3,3 N=10					-											
6.50-7.00	SBIT	1,2,3 3,5,6																
		N=17			-	1.47	- 7.00											<u></u> ⊟.
-							-											
-							-											
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-							-											
-							-											
					-													
Boring Progress and Water Observations Date Time Depth Casing Depth Water Dia, mm										Chis				Added		GENE		
Date	Tin	ne	Depth	ם י	epth	Dia, m	m Dpt		From	1	Го	Hours	From	То		REMA		
																dwater enco ater level ro		
Date	Tin	ne	Strike		nutes			ng										
20-07-07			2.00			1.68	5											
All alling a	nale	in reat		Contra	ector /	Driller			Met	hod/P	antii	sed.			_ogge	d By		
All dime So	nsions ale 1:6		es	Contra		Driller			wet	nou/P		sed Cable Perci	ussive Rig		Logge	CV	/	



Decised										`						00511		
Project	orths	towo													B	OREH	OLE	NO
Job No	onns	lowe	Dat	e			Groun	Level (m A	00)	Co-Orr	linates (O	S)				BHA	014	I.
	1706	26	Da	_ Z.	3-07 3-07	-07 -07	Cioun	8.395	00)		10117.40		267754	059				
Supervisi				2,	0-07-	07		Client		20			20110-	.000	She	et		
-	-	LF / C	W/R	LC						tates &	Eng l ish Pa	artnershi	DS			1 0	f 1	
								Calleg			-		P0					₽
SAMP	LES	& IE			ter		Depth			STRA	IA						gy	men
Depth	Type No	Test Result	Donth	Resu l t ppmv	Water		(Thick- ness)				CRIPTION					Legend	Geology	Instrument/
0.00-0.50	в					7.90	(0.50) 0.50	Grass over rare roots.	Grave	is fine to	ghtly grave medium	elly sand subangu	y clay T(Jar to su	DPSOIL v brounded	with .	1.24	TPS	
0.50-1.00	В					7.30	(0.60)	Soft to firm Gravel is fir including fli	brown ne to m	slightly edium a	ngular to s	subroun	AY with ded mixe	rare roots d litholog	i. Iy		TD	
1.20-1.70	SBP⊤	1,2,2 3,3,4 N=12						Firm to stiff mottles AM	iaht a	rev mott	ed dark a		Y with ra	are brown				
						-									ŀ			ΙE
2.20-2.70	SBIT	112				-	-								F			ĿΕ
2.20-2.70	SBI	1,1,2 2,3,3 N=10					(2.90)								ŀ		AMP	ΙĒ
		N=10				-	(2.00)								ŀ		/	ĿΈ
						-	_								F			ŀĒ
3 20 3 70	SBT	1,1,1 2,3,3 N=9													E			Ē
		N=9				-									ŀ			ŀĒ
						4.40	4.00	Stiff dark b			with rare of	range n	oote and	1010		==		
4 20 4 70	SBT	2,3,3				-		partings of	orange	silt (AN	IPTHILL C	LAY).	ools and	laie	F			ŀĒ
		4,4,4 N=15				-		4.50 mbgl,	becom	ning fissu	ured with r	are foss	is.		ŀ			
						-	_								ŀ			ŀŧ
5.20-5.70	SBT	222				-		5.00 mbg i ,	no ora	nge silt o	or roots.				ļ			LE
0.20 0.70		2,2,2 4,4,4 N=14				-	(3.00)								ŀ		AMP	E
						-									-			ľ
							-								ļ			Ē
															ŀ			ŀE
6.50-7.00	SBT	3,2,3 4,5,5													ļ			E
		N=17			-	1.40	7.00											i:=
Во	oring I	Progre	ess an			Observa			Chi	iselling		Wat	er Add	ed		GENE		
Date	Tin	ne	Depth	D	Ca epth	asing ∣Dia.m	m Dpf	er From	ı	То	Hours	From	ד ו	ō		REMA	RKS	
														N	o grou	ndwater e	ncount	ered.
Date	Tin	ne	Strike	Mi	nutes	Standi	ng Casir	lg										
All dime			res C	Contra	actor /	Driller		 М	lethod/I	Plant Us				L	ogged	By		
Sc	cale 1:	62.5								(Cable Perc	ussive F	Rig			JC	,	



Project														В	OREH	OLE	No
	orths	towe													BHA	015	:
Job No			D	ate 18	3-07-	07	Ground		/el (m AOD)		rdinates (OS						,
	1706			18	3-07-	07		7.9	964	E 5	40294.15	9 N 26	7803.927	-			
Supervisi	-	-							Client					She		. .	
JI	MC /	LF / C	W/I	RLC					Gallagher I	Estates &	English Pa	rtnerships			1 0	of 1	
SAMP	PLES	& TE	STS		Ъ					STRA	TA					λi	l l
Depth	Type No	Test Result	P I D Depth	Result ppmv	Water	Reduced Level	Depth (Thick- ness)				SCRIPTION				Legend	Geology	Instrument/ Backfill
- 0.00-0.40	В					7,56	0.40	Gra is fi	ass over brow ne to mediur	vn sandy n angu l ai	slightly grav r to subangu	elly clay T ular flint	OPSOIL, Gra	ve	1	TPS	
0.50-1.00	в							CL	AY Grave is	fine to m	nedium suba	angular to	ghtly gravelly rounded flint v	with			
- 1.00-1.50	SBT	1,3,3					(1.40)	silts	stone dusting	I (TERRA	CE DEPOS	SITS).				TD	
-		4,3,3 N=13					(<u> </u>		
						6.16	1.80								<u> </u>		
- 2.00	U	60 b l ows						Stif	f dark grey fi AY) .	ssured C	LAY with ra	re fossi l s (AMPTHILL				8. - 8.
								00									
-																	
							_										
3.00-3.50	SBT	1,2,2 3,3,4															
-		N=12															
						F											
- 4 <u>.</u> 00	U	10 blow	\$			-	_										
						Ē	(5.20)									AMP	£₿.
						Ē											
5.00	SPT	2,2,3				ł	-										÷≣÷
-		5,5,7 N=20															
-																	÷∃÷
- 6,00-5,50	в						. <u>.</u>										
																	: 目:
6.50-7.00	SBT	6,5,6 7,8,9				-											
		N=30			-	0.96	7.00										H
-																	
-							_										
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- -						-											
Во	ring I	Progre	ess a	nd Wa	ater (Observa	ations		С	hiselling	g	Water	Added		GENE	RAL	L
Date	Date Time Depth Casing Wate									То	Hours	From	То		REMA		
														No grou	undwater e	encounte	ered.
Date	Tin	ne	Strike	e Mi	nutes	Standir	ng Casin	a									
						Clandi	.g buoin	2									
All dime			res	Contra	ctor /	Driller	<u> </u>		Metho	d/Plant U			 I	Logge	d By		
	cale 1:										Cable Perci	ussive Rig			ĊCV	V	



Northstowe Behands BHANDS BHANDS Job Northstowe Concurate (m ADD) 5.827 Concurates (CD) E 540508.219 N 267821.046 Sheet Sheet Sheet Sheet Sheet State S Englan Partnerships State S Englan Par	Project														E	BOREH	OLE	No	
Use No Date T/2/1702-07 Control Life (m, NCU) Control Life (m, NCU) Control Life (m, NCU) Control Life (m, NCU) State Supervising Engineer JAC Factorian Life (m, NCU) Control Life (m, NCU) State S		orths	towe													BHA	016	:	
Supervising Engineer Sheet Sheet <th colspa="2" she<="" td=""><td></td><td></td><td>• •</td><td>D</td><td>14</td><td>7-07</td><td>-07</td><td>Ground</td><td></td><td>•</td><td>·</td><td></td><td></td><td></td><td></td><td>011/</td><td></td><td></td></th>	<td></td> <td></td> <td>• •</td> <td>D</td> <td>14</td> <td>7-07</td> <td>-07</td> <td>Ground</td> <td></td> <td>•</td> <td>·</td> <td></td> <td></td> <td></td> <td></td> <td>011/</td> <td></td> <td></td>			• •	D	14	7-07	-07	Ground		•	·					011/		
JMC / LF / CW/ RLC Galagher Extates & English Pannemhips 1 of 1 SAMPLES & TESTS STRATA Image: Colspan="4">STRATA Open Trees Open Provemant					17	7-07	-07				E 5	40508.21	9 N 26	7821.046	0				
STRATA Depth Type Test. Depth Dest Depth Depth Depth Depth Dest Depth Dest Depth Dest Depth Dest Depth Dest Dest <thdest< th=""> Dest <thdest< th=""></thdest<></thdest<>	-	-	-	 //							- Estatos 9	English Da	thorphing		Sn		f 1		
Outcome B Image: Construction angular base bulknown signify sandy sandy sandy sandy sandy signify gravely CLAY. Gravel is find to make linklogy. The image: Construction angular base bulknown signify sandy sandy signify gravely CLAY. Gravel is find to make linklogy. The image: Construction angular base bulknown signify sandy signify gravely CLAY. Gravel is find to make linklogy. The image: Construction angular base bulknown signify sandy signify gravely CLAY. Gravel is very rate 0.5-1.4m (TERRACE DEPOSITS). The image: Construction angular base bulknown signify sandy signify gravely CLAY. Gravel is very rate 0.5-1.4m (TERRACE DEPOSITS). The image: Construction angular base bulknown signify sandy signify gravely CLAY. Gravel is very rate 0.5-1.4m (TERRACE DEPOSITS). The image: Construction angular base bulknown signify sandy signify gravely CLAY. Gravel is very rate 0.5-1.4m (TERRACE DEPOSITS). The image: Construction angular base bulknown signify sandy signify gravely CLAY. Gravel is very rate 0.5-1.4m (TERRACE DEPOSITS). The image: Construction angular base bulknown signify sandy signify gravely CLAY. Gravel is very rate 0.5-1.4m (TERRACE DEPOSITS). The image: Construction angular base bulknown signify sandy signify gravely CLAY. Gravel is very rate 0.5-1.4m (TERRACE DEPOSITS). The image: Construction angular base bulknown signify sandy signify gravely CLAY. Gravel is very rate 0.5-1.4m (TERRACE DEPOSITS). The image: Construction angular base bulknown signify sandy signify gravely CLAY. Gravel is very rate 0.5-1.4m (TERRACE DEPOSITS). The image: Construction angular base bulknown signify sandy signify gravely CLAY. Gravel is very rate 0.5-1.4m (TERRACE DEPOSITS). The image: Construction angular base bulknown signify sandy signify sandy sig					RLC				G	allagne		-	nnersnips			10		Ą	
Outcome B Image: Construction angular base bulknown signify sandy sandy sandy sandy sandy signify gravely CLAY. Gravel is find to make linklogy. The image: Construction angular base bulknown signify sandy sandy signify gravely CLAY. Gravel is find to make linklogy. The image: Construction angular base bulknown signify sandy signify gravely CLAY. Gravel is find to make linklogy. The image: Construction angular base bulknown signify sandy signify gravely CLAY. Gravel is very rate 0.5-1.4m (TERRACE DEPOSITS). The image: Construction angular base bulknown signify sandy signify gravely CLAY. Gravel is very rate 0.5-1.4m (TERRACE DEPOSITS). The image: Construction angular base bulknown signify sandy signify gravely CLAY. Gravel is very rate 0.5-1.4m (TERRACE DEPOSITS). The image: Construction angular base bulknown signify sandy signify gravely CLAY. Gravel is very rate 0.5-1.4m (TERRACE DEPOSITS). The image: Construction angular base bulknown signify sandy signify gravely CLAY. Gravel is very rate 0.5-1.4m (TERRACE DEPOSITS). The image: Construction angular base bulknown signify sandy signify gravely CLAY. Gravel is very rate 0.5-1.4m (TERRACE DEPOSITS). The image: Construction angular base bulknown signify sandy signify gravely CLAY. Gravel is very rate 0.5-1.4m (TERRACE DEPOSITS). The image: Construction angular base bulknown signify sandy signify gravely CLAY. Gravel is very rate 0.5-1.4m (TERRACE DEPOSITS). The image: Construction angular base bulknown signify sandy signify gravely CLAY. Gravel is very rate 0.5-1.4m (TERRACE DEPOSITS). The image: Construction angular base bulknown signify sandy signify gravely CLAY. Gravel is very rate 0.5-1.4m (TERRACE DEPOSITS). The image: Construction angular base bulknown signify sandy signify sandy sig	SAMP	LES	& IES			ter		Denth			STRA	IA					gy	men	
0.600.00 B Image: Standing Contractor / Driller 0.90 Image: Standing Contractor / Driller TD 0.600.00 B Image: Standing Contractor / Driller 0.90 Image: Standing Contractor / Driller TD TD 0.600.00 B Image: Standing Contractor / Driller 0.90 Image: Standing Contractor / Driller TD TD 0.600.00 BT 1.33 3.33 3.33 Image: Standing Contractor / Driller Stiff dark grey to grey fissured CLAY with rare fossils. Rare TD Image: Standing Contractor / Driller TD 0.600.000 BT 1.33 3.45 3.45 3.45 3.45 3.45 3.45 3.45 3	Depth					Wa	01/0	(Thick-								-	Geolo	Instru Backf	
1.00-1.50 997 1.23 N+11 1.23 N+11 Image: State of the sta	0.50-0.90	в					5.93		fine to	medium	n angular to	o subrounde	gravelly C d of mixed	LAY. Gravel lithology	is		TD		
3.00-3.60 SUT 1.2.2 3.03 1.2.2 3.03 3.03 3.80 4.00-4.45 U 50 blows Stiff dark grey to grey fissured CLAY with rare fossils. Rare Orange brown motiling to 4.4m (AMPTHILL CLAY). AMP 6.00-6.50 SUT 2.3.5 6.6.6 (3.20) Stiff dark grey to grey fissured CLAY with rare fossils. Rare Orange brown motiling to 4.4m (AMPTHILL CLAY). AMP 6.00-6.50 SUT 2.3.5 6.6.6 (3.20) (3.20) AMP 6.00-7.00 SUT 2.3.5 6.6.6 (3.20) -0.17 7.00 6.00-7.00 SUT 2.3.5 6.6.6 -0.17 7.00 -0.17 7.00 0.00-7.00 SUT Date Time Depth	- 1.00-1.50	SEPPT	3,3,2					-	Grave	is fine s	subangular	to subround	ded of mixe	d ithology	′ -				
4.004.45 U 50 blows 3.03 3.80 5.005.50 SET 2.3.4 4.5.5 N=18 Stiff dark grey to grey fissured CLAY with rare fossils. Rare Orange brown mottling to 4.4m (AMPTHILL CLAY). AMP 5.005.50 SET 2.3.5 6.5.8 N=25 (3.20) Stiff dark grey to grey fissured CLAY with rare fossils. Rare Orange brown mottling to 4.4m (AMPTHILL CLAY). AMP 6.507.00 SET 2.3.5 6.5.8 N=25 (3.20)								(2.90)				TD							
4.004.45 U 50 Move Stiff dark grey to grey fissued CLAY with rare fossils. Rare Orange brown motiling to 4.4m (AMPTHILL CLAY). AMP 5.005.50 SET 2.3.5 N=15 (3.20) (3.20) AMP 5.005.50 SET 2.3.5 N=25 (3.20) (3.20) (3.20) AMP 6.505.7.00 SET 2.3.5 N=25 (3.20) -0.17 7.00 AMP 6.505.7.00 SET 2.3.5 N=25 AMP -0.17 7.00 -0.17 7.00 Boring Progress and Water Observations -0.17 7.00 Vater Added REMARKS Date Time Depth Depth Depth Depth Depth Dia.mm Water Date Time Strike Minutes Standing Casing Method/Plant Used Ion Ion <t< td=""><td>- 3.00-3.50</td><td>SEPT</td><td>3,4,5</td><td></td><td></td><td></td><td>3.03</td><td>3.80</td><td></td><td></td><td></td><td></td><td></td></t<>	- 3.00-3.50	SEPT	3,4,5				3.03	3.80											
5.00-5.50 SET 2.3.4 N=15 Image: Constraint of the standing intermediate of the standi		10-3,50 SEPT 1,2,2 3,4,5 N=14 3,03 3,80 Stiff dark grey to grey fissured CLAY with rare fossils. Rar												ossils. Rare				目	
6.6.8 N=25 Image: Second s	- - - - - - -		2,3,4 4,5,5					(3.20)	Grange	BIOWI		~1).			AMP				
Date Time Depth Casing Depth Water Dia, mm From To Hours From To REMARKS Date Time Strike Minutes Standing Casing Image: Casing Ima	6.50-7.00	ड्मरा	6,6,8				-0.17	7.00											
Date Time Depth Casing Depth Water Dia, mm From To Hours From To REMARKS Date Time Strike Minutes Standing Casing Image: Casing Ima								-											
Date Time Depth Dia, mm Dpt From																			
						-		m Dpt		From	Το	Hours	From	То	No gro			ered.	
											Logge	d By Drill	er						



Project															E	BOREH	OLE	No
N	orths	towe									_					BHA	017	,
Job No			D	ate 18	8-07-	-07	Groun	d Le	evel (m AO	D)		dinates (OS	,			DHA		
	1706			18	8-07-	-07		6	.379		E 5	40469.88	89 N 26	7688.722				
Supervis	-	-							Client						Sh	leet		
JI	NC /	LF / C	W/F	RLC					Gallagh	ner Es	states &	English Pa	rtnerships			1 0	f 1	
SAMF	PLES	& TES	STS		5						STRA	TA					>	ent/
Depth	Type No	Test Result	P I D Depth	Result ppmv	Water	Reduced Level	Depth (Thick- ness)				DES	SCRIPTION				Legend	Geology	Instrument/ Backfill
- 0.00-0.50 0.15	11AA B					5.98	0.40	Gi m	rass over b edium ang	prowr u ar t	n slightly to subro	gravelly sa unded f l int (INDUCTION	Gravel is fine DEPOSITS)	e to		TD	
0.50-1.00	в						(0.80)	is	fine to me	dium	ed orang angular	e slightly g to subroun	ravelly san ided flint (T	dy CLAY. Gra ERRACE	ive		TD	
- 1.00-1.45	U	30 b l ows				5.18	1.20		EPOSITS).	-								
F							-	Fi	rm stiff gre	y rar	e motte	d orange C	LAY with r	are selenite				
Ē								(A	MPTHILL	CLA	g sun no Y).	om 4m and	dark grey i	rom om		[]		
2.00-2.50	SBT	1,1,2					-											[:目:
2.00-2.00	361	2,3,3 N=10					-									<u> </u>		NE:
Ē		N=10																l 目:
E	0-3,45 U 50 blows																	÷≣÷
3.00-3.45																	目:	
3.45	3.45 D																	
E	SBPT 1,2,3																	[:目:
4.00-4.50	SBT	1,2,3					(5.80)										AMP	
Ę		3,3,4 N=13																目
F							-											
E 00 E 46	U	70 blown					[
5.00-5.45	0	70 b l ows					-											È.₿È.
5.45	D						-											
E							[k:E:
E																		
6,50-7,00	SBT	1,2,3					-											÷≣÷
0.00-7.00	GET	3,5,6 N=17				-0.62	7.00									<u> </u>		
L		1				-0.02	7.00											
E							-											
E							-											
-							-											
Ę							-											
Ę							-											
E							-											
E							-											
E																		
E							-											
Bo	nina l	Progre	55 2	nd \//	ater	Observa	ations	I		Ch	niselling	1	Water	Added		GENE		I
Date	Tin		Depth			asing		er	From		То	Hours	From	To		REMA		
Date			Jopu		epth	Dia, m	m Dp	t		+	.0	Tioura	. 1011		No are	undwater e		ered
														'	10 giù	and the contraction of		
									11									
Date	Tin	ne	Strike	e Mi	nutes	Standi	ing Casi	ng	 									
			T	<u> </u>					<u> </u>									
	All dimensions in metres Scale 1:62.5 Contractor / Driller									thod	/Plant U	sed Cab l e Perc	ussive Rig	l	_ogge	H By CV	v	



Project														E	BOREH	OLE	No
N	orths	towe													BHA	019	2
Job No			D	ate 19	9-07-	07	Ground	Le	vel (m AOD)		dinates (OS				DITE		,
	1706			19	9-07-	07		7.	826	E 5	40312.46	0 N 26	7599.775				
Supervisi	-	-							Client					Sh	eet		
JL	NC / I	LF / C	W/I	RLC					Gallagher I	Estates &	English Par	tnerships			1 c	of 1	
SAMP	LES	& TE	STS		L.					STRA	TA					х	ent/
Depth	Type No	Test Result	P I D Deptr	Result ppmv	Water	Reduced Level	Depth Thick- ness)			DES	SCRIPTION				Legend	Geology	Instrument/ Backfill
- 0.00-0.40	В		0.10	0		7,43	0,40	Gra	ass over dark tets, Gravel	brown sa	andy slightly	gravelly d	ay TOPSOIL	. with	<u>x 1</u> , <u>x 1</u> ,	TPS	
0.50-1.00	в				-	7,43	0.40	Firr	n grey mott l e avel is fine ar	ed orange	brown sligh subangular f	ty gravelly	sandy CLA		·····		
- 1.00-1.45	υ	30 blows				-	-	poc	kets (TERRA	ACE DEP	osits).						n∎n
						Ē									<u> </u>		¦:目:
1.45	D					E	(2.60)								<u> </u>	TD	
- 2.00-2.50	SBT	1,1,2				ŀ	-	20	0 mbg i , becc	mina fim	to stiff with	ci l tetono (ductings wit		<u> </u>		[:目:
	0.01	2,3,3 N=10				Ē		000	cassional sele	enite crys	tals.	SILSIONE	uusiings wii				に目に
		11-10				Ē									<u> </u>		記書記
-						4.83	3.00										1:目:
3.00-3.45	U	40 bows				È		Stif	f dark grey C sta l s (AMPTI	LAY with	rare orange	mottling a	and rare sele	nite			i:目:
3.45	D					Ē		0.9			,.						
È						Ę									<u> </u>		
4.00-4.50	SBT	1,2,2 3,3,5				Ē	-										È₿È.
-		N=13				Ē									<u> </u>		
-						Ē									<u> </u>		k:≣:
5.00-5.45	υ	50 blows				F	(4.00)									AMP	目
F						Ē											i:目:
5.45	D					Ē									<u> </u>		目
-						E E	-										:目:
						È											目
6.50-7.00	SBT	2,2,3 4,4,5				Ē									<u> </u>		ŀ₿
-		N=16				0.83	7.00								<u> </u>		
-						Ē											
F						Ę											
Ē						Ę											
F						F	-										
E E						E											
E E						E											
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						t t											
Bo	ring I	Progre	ess a			Dbserva			С	hiselling	3	Water	Added		GENE	RAL	
Date	Tin	ne	Dept	ם י	Ca epth	ising ∣Dia,mr	n Wate	r	From	То	Hours	From	То		REMA	RKS	
														No gro	undwater e	ncounte	ered.
Date	Tin	ne	Strike	e Mi	nutes	Standin	ng Casin	a									
		-				Starial		9									
All dime	nsions	in met	res	Contra	ctor /	Driller			Metho	d/Plant U] L	Logge	d By		
	ale 1:										Cable Percu	issive Rig			ĎF		



							_	•••									
Project														E	BOREH	OLE	No
	orths	towe		-1-			0			0.0	dia ata a (O)	2)		_	BHA	019	9
Job No		~~	D	ate 1	9-07	-07	Groun	d Level (dinates (OS		7004 704				-
	1706			1	9-07	-07		8.798		E 5	40083.52	29 N 26	7601.794	0	eet		
Supervisi	-	gineer LF / C	\ A //T						ient		English De	utu a va b in a		Sn	1 o	£ 1	
-	_	_		RLC.	1			G	allagner		English Pa	artnersnips			10	1 1	
SAMP	LES	& TE		1	Ŀ		D			STRA	TA					λ	nent
Depth	Type No	Test Result	P I D Depth	Result ppmv		Reduced Level	Depth (Thick- ness)				CRIPTION				Legend	Geology	Instrument/
0.20-0.40	в		0.15	0		8,40	0.40	roots. C	Gravel is	fine to me	edium angu	lar to subro	ay TOPSOIL ounded flint.		11.24	TPS	
					Ţ	7.80	(0.60)	rootets	Grave	orange sliq is fine to i POSITS).	ghtly gravel medium an	ly sandy Cl gu l ar to sul	AY with rare prounded flint	t		TD	
1.00-1.50	SERDI	3,6,6 10,10,13 N=39			÷		(1.20)	Dense fine to d	orange b coarse. G	rown slig	ingular to s	very gravell ubrounded	y SAND. San flint and mixe	id is ed	· · · · · · · · · · · · · · · · · · ·	TD	
2.00	SBT	7,9,7 7,7,6				6.60	2.20	Eirma lia	hterove	nottlad Or	ango brow	n aliabth (ac	andy slightly		·····		₽
		N=27					(0.80)	gravelly	CLAÝ. (Gravel is	fine to med	ium angula E DEPOS	r to subangul	ar		TD	
3.00-3.50	डाग्टर	1,3,3				5.80	- 3.00	Stiff da	rk arev w	vith rare b	rown mottli	na CLAY w	vith rare fossi	s	<u> </u>		200
		3,4,5 N=15					-	(AMPT	HILL CL/	AY).				-			
							-										
4.00-4.35	U	50 blows					-										×
			Ī				-										8
							-										88
							(4.00)								<u> </u>	AMP	
5.00-5.50	SEPT	1,2,3 4,4,6														,	
		N=17					-										
							-										
							-										8
6.50-7.00	SBT	2,3,3					-										×
0.00-7.00	361	4.5.5				1.80	7.00										æ
6.50	SPT	N=17 2,3,3 4,5,5 N=17				1.00	7.00										2.77
		N=17					-										
							-										
							-										
							-										
							-										
							-										
							-										
							-										
							-										
Во	ring l	Progre	ess a	nd W	ater	Observ	ations		С	hiselling]	Water	Added		GENE	RAI	
Date	Tin		Depth			asing ∣Dia, m		er F	rom	То	Hours	From	То		REMA		
					-opun									No gro	undwater e	ncount	ered.
Date	Tin	ne	Strike		inute	s Standi	ng Casi	ng									
19-07-07			1.00														
All dime			res	Contra	actor	/ Driller			Metho	d/Plant U				Logge	d By		
Sc	ale 1:	62.5									Cable Perc	ussive Rig			CV	v	



Project														E	BOREH	OLE	No
N	orths	towe								F					BHA	020)
Job No				^{Date} 13	3-09-	-07	Groun		vel (m AOD)		dinates (OS					1021	,
	1706			14	1-09-	-07		8.	583	E 5	39860.84	2 N 26	7485.958				
Supervisi	-	-							Client					Sh	eet		
JI	MC /	LF / C	W / I	RLC					Gallagher	Estates &	English Pa	tnerships			1 c	of 1	
SAMF	PLES	& TES	STS	_	5					STRA	TA					2	hent/
Depth	Type No	Test Result	PID Deptł		Water	Reduced Level (Depth Thick- ess)				SCRIPTION				Legend	Geology	Instrument/ Backfill
0.10-0.30	JJJ					8.48	0.10	IN TO	ass over dar PSO <mark>I</mark> L. Gra	k brown sl vel is fine	lightly gravel	ly fine to n ubangular	nedium sand	/	0	TPS TD	
- 0.50	D				ŀ	8.08 7.88	<u>0.50</u> 0.70	Da	rk brown slig	htly grave	lly fine to co	arse SAN	D subsoil. Gra	avel		TD	
-							0.70		ine angular i own slightly (EPOSITS). ND. Gravel is	fine	. <u></u>		
1.00-1.50	В	5,9,9 11,12,12				Ē		∣∖an	gular to suba	angular flin	t (TERRAC	E DEPOS	ITS).		· · · · · ·		
-		N=44/ 260				Ę	(1.30)	Ora to	ange brown medium ang	gravelly m ular to sub	edium to co prounded ch	arse SANI alk and flir	D. Gravel is fi nt. Becoming	ne liaht		TD	[]]
- 1.00-1.45	D	5,9,9 11,12,12				6.58	2.00	bro	wn and very					J	· · · · ·		
-		N=44/ 260			ľ	<u> </u>	2.00	Lig	ht brown vei	ry sandy C	RAVEL Gr	avel is fine	to coarse	2)	0000		
- 2.00-2.50	B					E E	(1.00)	an	gular to subr	ounded fli	nt and chalk	(TERRAC	CE DEPOSITS	5).	0000	TD	
2.50-3.00	В	1,2,5 5,10,11				E									0.000		: :
2.50-2.95	D	N=31 1,2,5 5,10,11			-	<u> </u>	3.00		ft to firm thin	ly laminate	ed grey CLA	Y with oc	casional pock	ets	<u>`````</u>		!⊒: !:
- 3.00-3.50	в	N=31				Ē		of		ial to 4m. I			k grey from 4				
3.00-3.50 3.00-3.50 3.50-3.95	D JIV	1,1,2				-											
		2,3,3 N=10				-											· · · - ·
3.50-4.00	В	1,1,2 2,3,3				Ē											
-		N=10				Ē											: 目 .
						Ē	(4.00)								<u> </u>	AMP	∃ `.
						Ē											: :目:
5.50		1,2,2				Ē											冒:
-		3,3,4 N=12/ 260													<u> </u>		: :目:
-		200				-											
-						Ē											:]]; :]];
						1.58	7.00										
-						-											
-						Ē											
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<u> </u>				 		<u> </u>					.	\A/atan	Addad				
	Boring Progress and Water Observations Time Depth Casing Water Depth Dia. mm Dpt								From	Chiselling To		From	Added To		GENE REMA		
Date			Depti		epth	Dia. mr	<u>ו Dp</u>	t	FIOIII	10	Hours	FIOIII	10				
			<u></u>				-										
Date	Tin	ne	Strike	e Mi	nutes	Standin	g Casi	ng									
All dimensions in metres Contractor / Driller							Methr	od/Plant U	sed			Logge	d Bv				
All dimensions in metres Scale 1:62.5								Werk		Cable Percu	ussive Rig			LF/(CW		



that										BORE	IOLE	No				
rinsi	owe		ato			Group		BHA021								
7001			0			Groun	. ,									
			0	9-07	-07			E 228081.00	09 N 20/331.0/9	Shoot						
								atatao 8 English Do	therebine		of 1					
_	_						Gallagher E	•	annersnips	I						
SAMPLES & TESTS							STRATA									
Гуре No	Test Result		Result ppmv	Wat		(Thick-		DESCRIPTION	I	Legend	Geolo	Instrument/				
в					8.25	0.30	Grass over dark	brown clayey grave Gravel is fine to m	lly sand TOPSOIL with	<u>x1 14</u> . <u>x1</u>	TPS					
JVV B		0.30	0		7.85	0.70	subangular of flir	ıt.		/++	TD					
						-	Dark brown and rootlets. Gravel is	orange brown claye s fine to medium. a	y gravelly SAND with rar ngular to subangular of f	ne <u>· · · ·</u>	. TD	E				
BL							rare medium grav	el sized red brown	and black mottles	0		1.E				
5.47	N=50	1 50		Ţ					and GRAVEL. Gravel i	s	:	1:E				
300		1.50	0				fine to medium, a	ingular to rounded	of flint. Sand is fine to co	oarse . °. · . ·		LE				
ЭВТ	1,0,0					-			clayey SAND and	[ŀΕ				
	2,3,8 N=13			₹						it.	•	l F				
				-			Sand is line to co		EP03(13).	· · · · · ·		i:E				
RT	1.0.0					-				a .	:	LE				
	2,6,9									· · · · ·	•	E				
						(5.50)				a .						
						(5.50)				0	. "					
38T	5,10,15 18,17									·						
										· • · · ·						
										· · · ·	:	Ē				
BL	2,2,3					-				· · · · ·						
	N=30									· · · ·	:	E				
											•	1 E				
						-				· · · · · ·		E				
					2.05	6.50				· · · · ·	:					
S B T	1,2,3 3,3,4				1.95/		Dark grey black s	lightly gravelly, slig	htly sandy CLAY. Grave	lis <u></u>		/				
	N=13				1.55	7.00				·-/==						
						-										
						-										
ng F	Progre	ss ar						niselling	Water Added	GEN	ERAL					
Tim	ne	Depth	D	C epth	asing ∣Dia.m	m Dot	er From	To Hours	From To							
										Very wet from 1.	0m					
Tim	ne	Strike	Mi	nutes	s Standi	ng Casir										
	-						*									
		2.50			1.50											
lora	in metr		Contre	actor	1.50		Mathod	/Plant Used		Logged By						
	7062 g Enq C / L ES Sype B JVV B B JVV B B JVV B B T JVV B B T B B T B B T B B T B B T B B T B B T B B T B B T B B T B B T B B T B B T B B B T B B D C T L ES B JVV B B T D D D D D D D D D D D D D D D D D	ES & TES No Result B JVV B 2017 4.12.12 13.13.12 N=50 JVV 2017 1.0.0 2.6.9 N=17 2017 5.10.15 18.17 2017 5.10.15 18.17 2017 1.2.3 3.3.4 N=13 2017 1.2.3 3.3.4 N=13 2017 1.2.3 N=30 2017 1.2.3 N=30 2017 1.2.3 N=13 2017 1.2.3 N=13 2017 1.2.3 N=13 2017 1.2.3 N=13 2017 1.2.3 N=13 2017 1.2.3 N=13 2017 1.2.3 N=13 2017 1.2.3 N=13 2017 1.2.3 N=13 2017 1.2.3 2017 1.2.	Diama and a second sec	Date Other 70626 0 g Engineer 0 C / LF / CW / RLC ES & TESTS Test PID Result Depth Part 4,12,12 13,13,12 0,30 JVV 1.50 287 1,0,0 2,3,8 N=13 387 1,0,0 2,6,9 N=17 10,0 2,6,9 N=17 1,50 10,15 18,17 11,17 18,17 387 1,2,3 5,10,15 18,17 11,2,3 3,3,4 N=13 N=13	Date 09-07. 09-07. C / LF / CW / RLC ES & TESTS Type PID Result Result pepth PiD pmv 8 0.30 0 9 1.12.12 13.13.12 NVV 0.30 0 1.50 0 1 287 1.00 2.3.8 N=13 1.50 0 297 1.00 2.6.9 N=17 1.50 0 297 1.015 18.17 1.50 0 397 1.2.3 5,10,15 18.17 1.50 0 397 1.2.3 3.3.4 N=13 1.50 0 197 1.2.3 3.3.4 N=13 1.50 0 198 1.2.3 3.3.4 N=13 1.50 0 199 1.2.4 N=13 1.50 0 1.50 199 1.2.4 N=13 0 0 0 199	Date 09-07-07 g Engineer C / LF / CW / RLC ES & TESTS and the second part of t	Date 09-07-07 9 Engineer Date 09-07-07 09-07-07 Ground Ground 2 Es & TESTS Image: constraint of the second result Image: constrait Image: constraint of the second res	Date 09-07-07 09-07-07 Ground Level (m AOD) 8.545 g Engineer C / LF / CW / RLC Client Gallagher E ES & TESTS ype Result Pepth Pepth Pepth Result	Date 09-07-07 09-07-07 Ground Level (m AOD) 8.545 Co-Ordinates (O E 539897.86 g Engineer C / LF / CW / RLC Client Gallagher Estates & English Pe ES & TESTS No by Result by PD Result by Result by PD Result by PD Client Gallagher Estates & English Pe VV 0.30 0 by Result by PD Result by PD Case or dark brown clayey grave frequent rooflets, Gravel is fine to modum, and urare medium gravel scale do brown frequent codels, Gravel is fine to modum, and urare medium gravel scale do brown fine to medium, angular of finit. WV 0.30 0 f f Crass over dark brown clayey gravel requent rooflets, Gravel is fine to medium, angular of thorm, and the to medium, angular of thorm, fine to medium, angular to rounded. WV 0.30 0 f f Case or angular to rounded. 1.50 0 f f Case or angular to rounded. Case or angular to rounded. 1.51 1.50 0 f f Case or angular to subangular. 1.51 1.52 7.00 Dark grey black slightly gravelly, slightly fine to coarse angular to subangular. 1.55 7.00 <td>Date Op-O7-07 Ground Level (m AOD) Co-Ordinates (OS) g Engineer C/LF / CW / RLC E 539897.869 N 267331.679 Set TESTS Clent Catagore Estates & English Partnerships Yee Test DPD Result Reduced (Thio/ness) DESCRIPTION 8 0.30 0 8.25 0.30 Grass over dark brown dayey gravely sand TOPSOL with frequent codets, Gravel is fine to medium, angular to subangular of Inter. 9 0.30 0 8.25 0.30 Grass over dark brown adyey gravely SAND with an infector models, Gravel is fine to medium, angular to subangular of Inter. 9 1.50 0 1.55 1.00 Torters.Gravel S fine to medium, angular to subangular of Inter. 9 1.50 0 1.55 1.00 Trace medium gravel sized red brown ad block motiles (TraceGePOSITS). 9 1.50 0 1.55 1.00 Trace medium gravel sized red brown adjet by gravely. SAND with an GRAVEL. Gravel 9 1.50 0 1.55 1.00 Trace medium gravel is fine to coarse, angular to subangular fine to medium, angular to subangular fine to coarse, angular to subangular fine to coarse angular to subangular fine to coarse, angular to subangular fine to co</td> <td>Date Og-07-07 Ground Level (m AOD) Co-Ordinates (OS) BH 2 Engineer Client Catagbre Textes & Engish Partnerships Sheet 1 2 Li / C / W / RLC Catagbre Textes & Engish Partnerships 1 1 ES & TESTS Texter PID Reduced Depth result Depth result Depth result Description Legence 9 0.30 0 2.25 0.70 Transport Description Legence 9 0.30 0 2.25 0.70 Transport Description Legence 9 0.30 0 2.25 0.70 Transport Description Legence 9 1.50 0 2.65 0.70 Transport Transport</td> <td>Date Og-07-07 Ground Level (m AOD) Co-Ordinates (OS) E 539897.869 N 267331.879 g Engineer Client Galagher Estates & English Partnerships 1 of 1 ES & TESTS g and the performance of the</td>	Date Op-O7-07 Ground Level (m AOD) Co-Ordinates (OS) g Engineer C/LF / CW / RLC E 539897.869 N 267331.679 Set TESTS Clent Catagore Estates & English Partnerships Yee Test DPD Result Reduced (Thio/ness) DESCRIPTION 8 0.30 0 8.25 0.30 Grass over dark brown dayey gravely sand TOPSOL with frequent codets, Gravel is fine to medium, angular to subangular of Inter. 9 0.30 0 8.25 0.30 Grass over dark brown adyey gravely SAND with an infector models, Gravel is fine to medium, angular to subangular of Inter. 9 1.50 0 1.55 1.00 Torters.Gravel S fine to medium, angular to subangular of Inter. 9 1.50 0 1.55 1.00 Trace medium gravel sized red brown ad block motiles (TraceGePOSITS). 9 1.50 0 1.55 1.00 Trace medium gravel sized red brown adjet by gravely. SAND with an GRAVEL. Gravel 9 1.50 0 1.55 1.00 Trace medium gravel is fine to coarse, angular to subangular fine to medium, angular to subangular fine to coarse, angular to subangular fine to coarse angular to subangular fine to coarse, angular to subangular fine to co	Date Og-07-07 Ground Level (m AOD) Co-Ordinates (OS) BH 2 Engineer Client Catagbre Textes & Engish Partnerships Sheet 1 2 Li / C / W / RLC Catagbre Textes & Engish Partnerships 1 1 ES & TESTS Texter PID Reduced Depth result Depth result Depth result Description Legence 9 0.30 0 2.25 0.70 Transport Description Legence 9 0.30 0 2.25 0.70 Transport Description Legence 9 0.30 0 2.25 0.70 Transport Description Legence 9 1.50 0 2.65 0.70 Transport Transport	Date Og-07-07 Ground Level (m AOD) Co-Ordinates (OS) E 539897.869 N 267331.879 g Engineer Client Galagher Estates & English Partnerships 1 of 1 ES & TESTS g and the performance of the				



Project	roject														BOREHOLE No				
N	Northstowe lob No Date Op No Date Date														BHA022				
Job No			D	ate 0	6-07	-07	Ground	l Lev	el (m AOD)	Co-Or	dinates (O	5)			БПА	1022	2		
12	1706	26			9-07			8.9	943	E 5	40082.41	7 N 26	7365.896						
Supervis	ing En	gineer							Client					Sheet					
JL	NC /	LF / C	W/F	RLC					Gallagher	Estates &	English Pa	rtnerships			1 of 1				
SAMP	LES	& TE	STS							STRA				ent/					
Depth	Type No	Test Result	P I D Depth	Result ppmv	Water	Reduced Level	Depth (Thick- ness)			DES		Legend	Geology	Instrument/ Backfill					
-						8.74	0.20	Dar is fi	k brown cla ne angular	Im SAND. G DEPOSITS).	rave	, <u>, , , , , , , , , , , , , , , , , , </u>	TD						
- 0.50-0.70 - 0.50-0.90	B JJJA		0 <u>.</u> 50	o			(1.00)	Soft	t to firm darl angular to 0 mbgl, bec	is		TD							
-0.90 1.00	SPЭТ	2,3,8				7.74	1.20			-									
1.20-1.60	в	13,14,13 N=48	3		Ŧ			Gra					ne to coarse alk (TERRA						
2.00	в	6,8,9				-	<u> </u>								· · · ·				
-		7,6,6 N=28													· · · · ·		!:目:		
						-									· · · ·				
- 3.00	в	2,3,4					.								:•:·:		i:目i:		
F		3,4,4 N=15				-									· · · · ·				
Ē							(4.80)								· · · · ·	TD	: 目:		
- 4.00	в	2,4,3					-												
4.00	В	3,3,5 N=14													· · · · · ·		i:目:		
-						-									· · · · ·				
	_					-									· · · · · ·		: 目:		
- 5 <u>.</u> 00	В	2,3,3 4,5,7				-									· · · · ·				
		N=19				-									· . :a : .		: 目:		
E E						2.94	6.00								· • · · · ·				
-						-		Loo	se brown s	ightly grav	elly SAND.	Sand is mo	edium to coa ha l k (TERRA	rse.	· · · · ·		: 目:		
- 6 . 50	в	4,3,3							POSITS).	igular to t	Sabioanaca				· · · · · ·				
		2,1,2 N=8					(0.00)										£∃:		
-							-(2.00)									TD			
-						-									· · · · · ·		÷∃÷		
7.80	в					0.04		7 0/) mahari fran				and and he		· · · · ·		に目む		
8.00-8.45	SPT	3,4,3				0.94 0.74	8.00 8.20	med	0 mbgl - fror dium grave l	sized piec	es of grey	silt.	-			AMP	い目い		
-		5,5,7 N=20				-			k grey fissu \Y).	red and ve	ery thinly la	minated CL	AY (AMPTH	ILL	Λ				
-						-			, , , , , , , , , , , , , , , , , , ,					/	'				
 -						-	.												
						-													
-																			
-						-													
						Observa		r			í –	Water			GENE REMA				
Date	Tin	ne	Depth	ם וי	epth	asing Dia, m	m Dpt		From	То	Hours	From	То			RNO			
														Damp	at 1.7m				
Date	Tin	ne	Strike		nutes	Standi	ng Casin	g											
06-07-07			1.70																
AH -2				Contro	otor	/ Driller			Matte	d/Diart I	and and			1000	od Pu				
All dimensions in metres Scale 1:62.5 Contractor / Driller Method/Plant Used Lo Cable Percussive Rig										Logge	ugged By LF / CW								



Instrument/
Instrument/
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Project															BOREHOLE No					
N	orths	towe					_								BHA024					
Job No			D	ate 16	6-07-	-07	Groun	d Le	vel (m AOD)	Co-OI	dinates (OS)			БПА	102-	•			
	1706			16	6-07	-07		6.	538	E 5	40507.09	0 N 26	7439.008	Sh						
Supervis	-	-				Client Gallagher Estates & English Partnerships														
JI	NC /	LF / C	W/I	RLC				1 of 1												
SAMP	LES	& TE	STS		5					STRA	TA					~	ent/			
Depth	Туре No	Test Result	P I D Depth	Result ppmv	Water		Depth Thick- ness)			DES		Legend	Geology	Instrument/ Backfill						
- 0.00-0.40 - 0.40-0.90	в					6.14	0.40	wit	ass over bro h rare roots ology	wn slightly Gravel is	sandy s l igh fine subang	tly gravelly ular to rou	day TOPSC	DIL d	<u>11.14</u> .14.14 1 <u>1.14</u> .14.14	TPS				
0.60-0.60	n 11^^	45 b l ows					.(1.10)	Fin		ight browr ubangular	slightly san flint (TERR/	dy slightly ACE DEP	gravelly CLA OSITS).	Υ. ⁻		TD				
- 1.00-1.50	0	45 DIOWS				5.04	1.50								 					
1.50-1.95	υ	43 b l ows				-		Stif		d brown o	losely fissur	ed CLAY	(AMPTHILL		<u> </u>					
_ 1,95	D					4.54	(0.50) 2.00	CL 1.6	AY). 0 mbg i , rare	light grey	/white si i ty d	lustings.				AMP				
- 1.95	D					Ē		Stif	ff grey to dar	k grey fiss			enite crystals							
2.50-3.00	SBT	1,2,2				Ē		(AM	MPTHILL CL	AY).										
F		8,7,4 N=21				Ē														
Ē						E									<u> </u>					
3,50-3,95	U	60 blows				E														
		50 5000				Ē														
3.95	D					Ē									<u> </u>					
	0.007	4.0.0				Ē	(5.00)									AMP	l: E			
4.50-5.00	SBIT	1,3,3 3,4,5				Ē	()								<u> </u>					
<u>-</u>		N=15				F									<u> </u>					
						E														
5.50-5.95	U	55 bows				Ē														
5.95	D					F									<u> </u>					
						Ē											ŀ∵≣:			
6.50-7.00	SBT	2,3,3 5,5,5				Ē														
		N=18			-	-0.46	7.00										<u>.:::́</u> Н:			
						E														
-						Ē														
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Bo	rina I	Proare	ss a	nd W:	ater	Observa	tions		0	Chiselling	a	Water	Added		GENE	R۵۱	•			
Date	Tin	-	Depth			asing ∣ Dia, mn		er	From	То	Hours	From	То		REMA					
			- 1- 2		epun		n Dpt	-						Damp	from 1.4m.					
														-						
Date	Tin	ne	Strike	N/1	nutes	Standin	ig Casir	na												
Juie					nutes	Stanulf	ig Casil	. 9												
All dime	nsions	in met	res	Contra	ctor /	Driller		1	Metho	d/Plant U			·]	Logge	d By					
	ale 1:		-								Cable Percu	ussive Rig			JC					



Project															BOREHOLE No				
N	orths	towe													BHA025				
Job No			D	ate 16	6-07-	-07	Ground	d Lev	vel (m AOD)	Co-Or	dinates (OS))			DU	1023	,		
	1706			16	6-07	-07		5.	598	E 5	40700.223	3 N 26	7597.355						
Supervis	ing En	gineer							Client					Sh	leet				
JI	NC /	LF / C	W/I	RLC					Gallagher	Estates &	Eng l ish Par	tnerships			1 of 1				
SAMF	LES	& TE	STS		L.					STRA	TA						ent/		
Depth	Type No	Test Result	P I D Depth	Result ppmv	Water		Depth (Thick- ness)			DES		Legend	Geology	Instrument/ Backfill					
0.00-0.40	B					5,20	0,40	Gra	ass and vege h rare roots.	etation ove	er brown s l igl	ht i y sandy	day TOPSC	L	<u>x. 14</u> . <u>x. 17</u> .	TPS			
0.40-0.90	в					4.70	(0.50)	Firr	n to stiff bro htly gravelly	wn mottle CLAY, G	d light brown ravel is fine r	and grey ounded fl	slightly sand int (TERRAC	ly E		TD			
1.00-1.45	U	30 blows			[4.40	1.20	Firr	POSITS). n to stiff dar	k grey mo	ttled Orange	brown s	ghtly sandy	/		AMP			
-		No Shoe				ŀ		∖C⊔	AY with rare	sand ban	ds (AMPTH	LL CLAY).	/					
-						Ē		(AN	n to stiff fiss APTHILL CL	urea grey .AY).	mottled orar	ige and b	rown CLAY		<u> </u>				
- 2.00-2.50	SBT	1,1,1					-	2.0	0 mbg l , bec	omina are	v on v.				<u> </u>		XI = XI		
-		1,2,3 N=7				Ē		2.0	o	sining gro	, «,.						i II.		
-						Ē									<u> </u>				
3.00-3.45	U	30 blows				Ē	-								[
5.00-5.45		SO DEOWS				E									<u> </u>				
3.45	J					È									<u> </u>		言い		
						Ē	-								[
4.00-4.50	SBT	1,2,2 2,3,3				Ē	(5.80)								[AMP			
4.00	SPT	N=10 1,2,2 2,3,3				Ē									<u> </u>				
_		2,3,3 N=10				Ē	_								<u>F</u>		言い		
5.00-5.45	U	35 b l ows				E											!:目:		
5.45	J					Ē													
-						Ē													
							-								[- <u>-</u> -				
-	OBT					Ē													
6.50-7.00	SBIT	2,3,3 4,5,5 N=17				-1.40	7.00								E==				
-		11-17				-1.40	7.00												
-						Ē													
-						ļ													
						Ē	-												
-						F													
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-						-	-												
-						ŀ													
						Ę													
						F													
	-					Observa		ər		Chiselling			Added		GENE REMA				
Date	Tin	ne	Depth	ם י	epth	asing Dia, mr	n Dpt		From	То	Hours	From	То						
														No gro	undwater e	ncounte	ered.		
Date	Tin	ne	Strike	e Mi	nutes	Standir	ng Casir	ng											
				0	-	D-111-1							ļ						
All dime So	nsions		res	Contra	ictor /	Duller			Metho	od/Plant U	sed Cab l e Percu	ssive Rig		Logge	id By JC	;			



Project														B	BOREHOLE No					
N	Northstowe Ground Level (m AOD) Co-Ordinates (OS)														BHA026					
Job No			C	^{ate} 18	3-07	-07	Ground				rdinates (OS					020	,			
	1706			18	3-07	-07		5.50	6	E 5	40908.79	9 N 26	7626.090	Sh						
Supervis	-	-				Client Gallagher Estates & English Partnerships														
JI	MC /	LF / C	W/	RLC				G	allaghe	r Estates &	English Pa	rtnerships			1 of 1					
SAMP	LES	& TES	STS		Ľ.					STRA	TA					y	ent/			
Depth	Type No	Test Result	P I D Depti	Result ppmv	Water		Depth Thick- ess)			DES		Legend	Geology	Instrument/ Backfill						
0.00-0.30	B B					5.11	0.40	Grass Grave	over bro	own slightly angular to :	y gravelly sa subrounded	ndy TOPS	OIL with roo	ts.	× ×	TPS				
0.50-1.00	JJVV B					-		Soft to	firm gre	ey mottled	orange brow	n sandy s	lightly gravel angu l ar flint	ly						
- 0.50-1.00	В					Ē		(TERF	ACE D	EPOSITS).			angular lint		<u> </u>					
Ē						Ē	(1.90)									TD				
1.50-1.95	υ	30 b l ows				Ē	(<u> </u>					
-						È														
						3.21	2.30								· · · · ·					
2.50-3.00	SBT	1,1,1				Ē		Firm d	ark grey FHILL C	/ fissured C LAY).	LAY with ra	are brown i	nottles							
-		2,3,3 N=9				E E		v		,							k:≣:			
F						F														
3,50-3,95	U	50 b l ows				Ē											k:≣:			
		50 5000				Ę														
3.95	11AA D					Ē											k:≣:			
Ē						Ē														
4.50-5.00	SBIT	1,2,2 3,3,3				Ē	(4.70)									AMP	É≣É			
F		N=11				F														
Ē						Ē											:目:			
5.50-5.95	U	60 b l ows				E E											に目に			
5.95	D					-											k:≣:			
						Ē														
6.50-7.00	SBT	1,3,3 4,5,5				Ē											b₿:			
-		N=17				-1.49	7.00													
-						Ę														
Ę						Ē														
-						E E														
F						Ē														
						Ē														
-						È														
						Ē														
F						Ē														
-						-														
		-				Observat				Chiselling			Added		GENE					
Date	Tin	ne	Dept	h D	epth	asing Dia, mm	Wate Dpt		From	То	Hours	From	То		REMA					
														No grou	undwater e	ncounte	ered.			
Date	Tin	ne	Strike	e Mi	nutes	Standing	g Casing	9												
- مسئلم ال	nolona	in mot		Contra	ctor	Driller			Moth	od/Plant U	sed				d By					
All dime So	nsions cale 1:		es	Contra					weth		Cable Perc	ussive Rig		Logge	gged By DF					



Project															E	BOREH	OLE	No
N	orths	towe														BHA	027	,
Job No			D	ate 17	7-07-	-07	Grou	nd Le	evel (m	AOD)	·	dinates (OS)				DU	1021	
	1706			17	7-07-	-07		5	579		E 5	40920.405	5 N 26	7477.468				
Supervis	ing En	gineer							Clie	ent					Sh	eet		
JI	MC /	LF / C	W/F	RLC					Gal	lagher	Estates &	English Part	nerships			1 c	of 1	
SAMF	LES	& TE	STS		L						STRA	TA					_	ent/
Depth	Type No	Test Result	P I D Depth	Result ppmv	Water		Depth (Thick- ness)					SCRIPTION				Legend	Geology	Instrument/ Backfill
0.00-0.50 0.15-0.15 0.50-1.00	B 11AA B				-	5.08	(0.50) 0.50	G fli	ravel is nt.	s fine a	ngular to s	ghtly gravelly subrounded n	nixed itho	ology includin	g	<u>11.21.11</u>	TPS	
						Ē		Fi	rm gre	y mott	ed brown Gravel is	and orange b fine to mediu	prown slig	htly sandy sli	ghtly			
1.00-1.45	U	56 blows				-	(1 50)	fli	nt (TEF	RRACE	E DEPOS	TS).	in angu		160	· · · · ·	тъ	0 – 0
-	D					Ē	(1.50)									<u> </u>	TD	目:
1.45																· <u>···</u> ·		<u>い目</u> れ
2,00-2,50	SBT	1,1,2				3.58	2.00		tiff arev		/ with rare	brown mottle				<u> </u>		[:目:
		2,2,3 N=9				Ē			un grey		with tare	biowinniour	20 (MINI I			E		
E						Ē	(1.00)									<u> </u>	AMP	[:=]:
						2.58	3.00											[1]目1
3,20-3,70	U	40 blows						St	tiff dark	grey	fissured C	LAY (AMPTH	HILL CLA	Y).				目
Ę						Ē												に目に
						Ē										[- <u>-</u> -		:目:
-3.90-4.40	U	50 b l ows				Ē	-									<u> </u>		に目に
4.40-4.90	SBT	1,1,2				Ē												
Ę		2,2,3 N=9				Ē										[
F						F	(4.00)	5.	00 Rar	re fine	selenite ci	ystals.				<u> </u>	AMP	
Ē						Ē						-				E		ŀ:≣:
E						Ē										<u> </u>		
-						E												;·昌·
E						Ē										[
6.50-6.95	U	65 blows				Ē										<u> </u>		: 目:
6.95	D					-1.42	7.00											
- 0.95						Ē												
Ę						Ē												
Ę						Ē												
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E																		
Bo	-					Observa		ler.			Chiselling	ī — — — — —		Added		GENE		
Date	Tir	ne	Depth	ם י	epth	asing ∣Dia.mi	m ∐a m Dp	ter ot	Fr	om	То	Hours	From	То		REMA	RKS	
															No gro	undwater e	encounte	ered.
Date	Tir	ne	Strike	e Mi	nutes	Standir	ng Cas	ing	1									
All dime So	nsions		res	Contra	actor /	Driller				Metho	od/P l ant U	sed Cable Percus	ssive Rig		Logge	ed By DF	-	



Project No																	
No														BC	DREH	OLE	No
	orthst	owe										-			вна	028	3
Job No			D		0-07		Groun		(m AOD)		rdinates (O			'			•
	17062			1	0-07	-07		8.21		E 5	40348.45	59 N 26	177.812	Shee			
Supervisir	-	LF / C						_	Client		English Da	utu a va b in a		Snee	" 1 o	£ 1	
	_	_		KLC					sallagner		English Pa	artnersnips			10	01 1	
SAMP	LES	& TE\$			e					STRA	TA					λ.	nent
Depth	Type No	Test Result	P I D Depth	Result ppmv	Water	Reduced Leve	Depth (Thick- ness)				SCRIPTION				.egend	Geology	Instrument/ Backfill
0.20-0.70	в					7.47	(0.75) 0.75	Grass with ra	over dar are rootle	k brown s ts. Gravel	lightly grave is fine angi	elly clayey s ular to round	and TOPSO I L ded flint.	11	<u>1. 1. 1</u>	TPS	
	B JJVV CPT	1,3,2 2,3,3 N=10	0.75	0	₹	6.82	(0.65) 1.40	Grave (TERF	l is fine a	ngular to POSITS)	rounded fin		ne to coarse		o	TD	
1.80-2.00	B JJVV B		1.80	o	-	6,02	(0.80)	Mediu pocke	im dense its of l ight	yellow bro grey very	own slightly sandy silt (clayey SAN TERRACE	ID with rare DEPOSITS).	-		TD	
2.00 2.20-2.60	SPT B	1,2,1 3,4,3 N=11				0,02		Mediu soft S	m dense ILT (TER	grey brov RACE DE	n thinly lam POSITS).	ninated clay	ey SAND and	× × ×	· · · · · · · · · · · · · · · · · · ·		
3.00-3.50	SBPT	1,2,2 3,6,8 N=19					(2.80)							* * * * *	· * *	TD	
4.00-4.50	SBT	2,2,1 1,2,3 N=7					- - - - - - - -	4.00 n rounde	nbgl, 1. b ed flint. 2	ands beco . some b l a	oming grave ack staining	elly. Gravel in silt band	s fine angula s.	rto × ×	× × × ×		
5.00-5.50	в					3,22	5.00						l is fine angul		.×`,`×		
						2.52	(0.70) 5.70					-		· ·	· · · · · · · · · · · · · · · · · · ·	TD	
6,00-6,50	SBIT	2,1,3 4,5,5 N=17				1.22	(1.30)	Sun da	ark grey (IPTH I LL CL	<u>_Ar).</u>				AMP	
Вог	ring F	Progre	ss a	nd W	ater	Observ	ations			Chisellin		Water	Added		GENE	RAL	
Date	Tim	-	Depth			asing ∣ Dia, m		er	From	То	Hours	From	То		REMA		
Date 10-07-07	Tim	ne	Strike	e Mi	nutes	Stand	ing Casir	ng									
10-07-07			1.40														
All dimen	nsions ale 1:6		res	Contra	actor	/ Driller		11	Metho	od/Plant U	sed Cable Perc	ussive Rig	[L	ogged l	ву си	v	



							_			`							
Project														B	OREH	OLE	No
	orths	towe	-	-1-			0	المتحالة		0-0	din ata a 100			_	BHA	029)
Job No	1700	26	D	ate 12	2-09	-07	Groun	d Level (m.	AOD)		dinates (OS		7744 607				
12 Supervis	1706: ing En			16	3-09	-07		8.683 Clier	*	E 54	40076.60	N 26	7244.587	She	et		
-	-		W/F	RLC						states &	English Pa	rtnerships				f 1	
SAMF									-9.101 L	STRA	-	anerenipe					Ę
SAIVIE			PID	D	Water	Decks	Depth			SIRA	IA					ygc	Instrument/ Backfill
Depth	Type No	Test Result	Depth	Result ppmv	Ň	Reduced Leve	(Thick- ness)			DES	CRIPTION				Legend	Geology	Instrum Backfill
0.00-0.20	₿JJJ∕∕∕					8.38							d TOPSOIL.		<u>x 1.</u> <u>x 1.</u>	TPS	
0.50	D						(0.50)	Brown slig	ghtly gra	avelly fin	ubangular e to mediur	n SAND. G	avel is fine		0	TD	
	BJJJV					7.88	(0.50) 0.80	angular to	suban	gular flin	t (TERRAC	E DEPOS	TS). avel is fine to	<u>+</u>	• • • •		
1.00-1.45	CIPT	5,10,9 9,10,12						medium a	angular	to subro	unded flint a	and chak.	Becoming ligh	nt.	. a		
		N=40/ 260					(1.50)	brown fro	m 1.1m ⊺S).	and ver	y gravelly fr	om 2m (Te	RRACE	-	•	TD	
1.00-1.50	CBBL	5,10,9 9,10,12												ŀ	· · · ·		
200.245	СВТ	N=40/ 260				6.38	2.30								•		
2.00-2.45	CBI	1,2,4 5,11,12 N=32					-	Light brov	vn very	sandy fii	ne to mediu Rare cobble	im angular es of flint et	to subrounde base	d	000		[:目:
2.00-2.50	CBPT	1,2,4 5,11,12						(TERRAC					2000		\$ <u>}</u> 0 0 2		₿.
2,30-2,50	JJJA	N=32												į	0.00		ŀ∃.
3.00-3.50	в													ľ	0 1. 07		
							-							1	°0 3°0		目
4.00-4.50	в						-							ė	0.000		記書
							(4.30)								0000	TD	目
							-							,	00.00		
5.00-5.50	в						-								0000		
														•	0.00		١.
							-								00.00		[:目:
6.00-6.50	в						-								0.000		目
						2.08											[:目:
6.70-7.15	SIÐT	3,3,3				1.98		Probably	modera	ately stron	ng grey SIL	TSTONE (KIMMERIDGI	E /	<u>× × × </u>	KIM KIM	
		5,5,7 N=20				<u> </u>	- 0.95	Stiff blue	dark gre	ey CLAY	(KIMMER	DGE CLA	().				
														-			
							-										
							-										
Bo	orina F	Proare	ess a	nd W	ater	Observ	ations		Ch	niselling		Water	Added		GENE	RAI	•
Date	Tin		Depth			asing ∣Dia.m		er Fro		То	Hours	From	То		REMA		
			-												o determi		
													s	groundw	/ater strike	e depth.	
Date	Tin	ne	Strike	e Mi	nutes	Stand	ing Casi	ng									
							-										
All dime			res	Contra	actor /	Driller			Method	/Plant Us			l	Logged	IBy LF		
50	cale 1:0	02.5									Cable Perc	ussive Rig					



Project														E	BOREH	OLE	No
N Job No	lorths	towe		ata			Crown	ا میرما	(m (00)	Co 01	dinataa (O	6)		_	BHA	030)
	1706	26			6-07 6-07		Groun	8.29	(m AOD)		dinates (O		7133.289				
Supervis					0-07	-07			lient	ES	39904.24	+4 N 20	/133.209	Sh	eet		
-	-	LF / C	W/F	ALC.				_		Estates &	English Pa	artnerships			1 0	f 1	
	_	& TES							Janaghor	STRA							Ę
SAIVIE			PID	D	Water	D. J	Depth			SIKA	IA					ygo	lll fill
Depth	Type No	Test Result	Depth	Result ppmv	Ň	Reduced Leve	(Thick- ness)			DES	CRIPTION	1			Legend	Geology	Instrument/ Backfill
0.00-0.30 0.15-0.15	B B						(0.60)					tion over br angular flint	own slightly			MG	
0.50-1.00	в					7.70	-	0.10 n	nbgl, rare	charcoal.		-			<u> <u> </u></u>	1410	
_					₹	7.30	1.00	mediu	e brown te m angu l ai	o brown v r to subro	ery sandy unded f l int	(TERRACE	Gravel is fine (DEPOSITS)	to).	000	TD	
1.00		5,7,12 14,14,15			-		-	Dense	e to very d e angular t	ense brov to subrou	vn sandy C nded flint o	RAVEL. G	ravel is fine to blogy (TERR/	ACF	0000		間
1.50 1.95	U	N=55 30 b l ows						DEPO	SITS).								!!!!!!
1.50 1.50	JJVV						-								0.0.0		
2.00		6,11,21 20,9 N=50/													01.07		
2.50-3.00	в	185					(3.20)								°.0.°0. °.0.°0	TD	
3,00		4,9,16					-								0000		
3.00		21,13 N=50/					-								°0.0°0		[追]];
3 50 3 95	υ	210 50 blows					- -								0 0 0 0		
3.95	D					4.10	4.20	4 00 m	nbgl, becc	mina siltu	,				0.0.02		1,
4.00		2,2,3 4,4,3				4.10	4.20		-			E DEPOS	TS).		× · × · ×		
4 50 5.00	в	N=14					-								× ·× · × ·× · × ·× ·	1	
5.00	SPT	0,1,2					(1.90)	5.00 n	nbal. beco	ming pale	e grev and	slightly san	dv. sliahtlv		× · · · · · · · · · · · · · · · · · · ·	TD	∷=∷
		3,3,3 N=11					(1.50)	gravel	ly. Grave	is fine su	bangular/s	ubrounded	flint.		× × ×		
5.50-5.95	U	60 b l ows					-								· ×· × × · ×		[]目:
5.95	D					2,20	6,10	Chiff al	arle array 6		AV with a	ana faaaila (· · · · ·		
							(0.90)	CLAY	ark grey in).	ssured Ci		are lossiis (ampth i ll			AMP	
6.50-7.00	SBT	1,2,3 4,6,6 N=19				1 20										AIVIE	
- 		N-19				1.30	7.00										
- - -							-										
							-										
-							-										
							-										
-							-										
-							-										
-							-										
							-										
Bo	oring	Progre	ess ar			Observ			С	hiselling]	Water	Added		GENE	RAL	
Date	Tir	ne	Depth		C epth	asing ∣Dia.m	m Dp	er	From	То	Hours	From	То		REMA	RKS	
														No grou	undwater e	ncount	ered.
Date 16-07-07	Tir	ne	Strike	Mi	nutes	Standi	ing Casi	ng									
10-07-07			1.00														
All dime	ensions	s in metr	res	Contra	actor /	Driller	I	11	Metho	d/Plant U	sed	1		Logge	d By		
	cale 1:											cussive Rig		335	Ĵ/	I	



Project											BOREH	OLE	No
	orths	towe					-			2	BHA	031	
Job No			D		3-07		Groun	d Level (m AOD)	Co-Ordinates (O				
121 Supervisi	1706			1	3-07	-07		8.359	E 539955.0	59 N 266993.024	Sheet		
•	0	LF / C	N//					Client	tatos & English Dr	vetnorshine	1 c	.F 1	
									tates & English Pa	annersnips	10		>
SAMP	LES	& TES			Ŀ		Danth	\$	STRATA			gy	nen
Depth	Туре No	Test Result	P I D Depth	Result ppmv			Depth (Thick- ness)		DESCRIPTION		Legend	Geology	Instrument/ Backfill
0.20-0.80 0.20-0.80	B JJVV		0.20	o			(1.10)		el is fine angular t	y slightly gravelly SAND to rounded flint. Sand is fi		TD	
1.00	SPT	3,8,11			₹	7.26	- 1.10				· · · · · · · · · ·		
1.10-1.60	в	12,10,6 N=39			-		_(1.70)	is fine angular to r	ounded flint. Sand ravelly silt 0.2m th	AND and GRAVEL. Gra is fine to coarse. One ba ck at 2.3m. Gravel is fine DEPOSITS).	and [· · · · ·	TD	
2,00-2,50	"CIBALA	2,3,3 4,3,4 N=14	2.00	0		5.56	2.80	SILT. Gravel is fin	e angular to round		· · · · ·		
3.00-3.50	701642V	3,4,5 6,5,4 N=20	3.00	0		4,66	(0.90) 3.70	is fine rarely media DEPOSITS).	um angular to rou	lightly gravelly SILT, Gra nded flint (TERRACE		TD	
4.00	CPT	2,2,4 8,14,15 N=41				3,86	(0.80) 4.50	GRAVEL. Sand is angular to rounded	medium to coarse d flint (TERRACE		m 0 <u>0</u> 00	TD	
5.00	CPT					0.00	(1.00)	Yellow brown sligh to medium angula (TERRACE DEPC	r to rounded fint,	and GRAVEL. Gravel is fi Sand is medium to coarse	e	TD	
5.50-6.00	в					2.86	5.50 (0.60) 6.10	Yellow brown sligh medium angular to (TERRACE DEPC	o rounded flint. Sa	welly SAND. Gravel is fin nd is fine to coarse	e to	TD :	
6,10-6,60	В					2,20	(0.90)		rey fissured and v	ery thinly laminated CLA	Y 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AMP	
						1.36	7.00						
Во	ring I	Progre	ss a	nd W	ater	Observa	ations		iselling	Water Added	GENE		
Date	Tin	ne	Depth		C Depth	asing ∣Dia.m	m Dpt	From	To Hours	From To	REMA	RKS	
											lo groundwater e Sands blowing fro		
Date	Tin	ne	Strike	M	inutes	s Standi	ng Casi	ng					
13-07-07			1.10										
All dimer Sc	nsions ale 1:		res	Contra	actor	/ Driller		Method/F	Plant Used Cable Perc	Lussive Rig	logged By CV	v	



Project														1	BOREH	OLE	No
No Job No	orths	towe		ata			Crown	d Level (m		00.01	dinates (O	C \			BHA	032	2
	1706	26		ate 1	1-07 1-07	-07	Groun	9.318	AOD)				7031.989				
Supervisi				- 1	1-07	-07		9.310 Clier	*	ED	40171.73	DZ IN 20	1031.905		neet		
-	-		w/ F	N C						states &	English Pa	artnershins			1 0	of 1	
				(10				Gaile			-	artherampa			10		4
SAMP			PID		Water		Depth			STRA	IA					gy	men
Depth	Type No	Test Result	Depth	Result ppmv	Wa	Reduced Leve	(Thick- ness)				CRIPTION				Legend	Geology	Instrument/
0 . 20-0.70	В						(1.20)	Grass ove with frequ	er dark l Jent root	brown sli t l ets, Gra	ightly claye avel is fine	y gravelly s angular to	and TOPS rounded f i i	:O I L nt.		TPS	
1.00	SPT	1,4,4 10,11,10			Ţ	8.12	- 1.20										
1.20-1.60 1.20-1.60	B	N=35	1_20	0	-		-	Yellow br to rounde	own cla d f l int (1	yey SAN FERRAC	ID and GR E DEPOS	AVEL. Gra TS).	vel is fine a	ingu l ar	a .		
2.00	SPT	4,8,10 10,11,13 N=44					- - - - - - - - -	2.00 mbg	l, mater	ial becor	ming very v	vet			• • • • • • • • • • • • • • • • • • •		
3.00-3.50	JSHATV	6,19,30 20 N=50/ 115	3 <u>.</u> 00	o				3.00 mbg	I, becon	ning sligi	htly clayey.				a,		
4.00-4.50	в						_(5.50)									TD	
4.60	CPT	8,9,11 12,22,5 N=50/ 232						4.60 mbg gravel.	l, grave	become	s fine med	ium with o	ccasional co	oarse	0 0 0 0		
						2.62	6.70	0.00							····		
						2.32	7.00			Y).	id very thin	y anniac					
						Ohan						14/					
	-	-				Observa		er –		niselling	-		Added	-	GENE REMA		
Date	Tin	ne	Depth		Depth	asing Dia, m	m Dpi	t Fro	m	То	Hours	From	То	Sands	REIVIA		ogl.
Date 1-07-07	Tin	ne	Strike	• M	inutes	s Standi	ng Casi	ng									
All dime Sc	nsions ale 1:		res	Contra	actor	/ Driller			Method	/Plant U:	sed Cab l e Perc	cussive Ric		Logge	ed By CV	v	



Project														-	BOREH		No
-	orths	towe													SOREH	OLE	NO
Job No	ortina	lowe	D	ate 🔒			Groun	dleve	(m AOD)	Co-Or	dinates (O	S)		_	BHA	033	3
	1706	26			1-07 1-07	-07 -07		8.96	. ,		40309.28		6987.942				
Supervisi						01			Client	20	10000.20		007.012	Sh	eet		
	-	LF/C	W/F	RLC						Estates &	English Pa	artnerships			1 o	f 1	
SAMP	I ES	& TE	STS						-	STRA	-	•					lt.
0/101			PID	Result	Water	Deduced	Depth			01104						ogy	
Depth	Type No	Test Result	Depth	ppmv	ŝ	Reduced Leve	(Thick- ness)			DES	CRIPTION	I			Legend	Geology	Instrument/
	_						r í	Grass	s over dark	brown sli	ghtly claye	y gravelly s	and TOPSO	NL.	<u>x 1.</u> . <u>x 1.</u>		
0.20-0.70 0.20-0.70	JJVV B		0.20	0		0.00	(0.70)	with f	requent ro	otiets, Gra	avel is fine	angular to	ounded fint	t .	11 . <u>2 - 4</u> . <u>1</u> . 15 . 5 6	TPS	
						8.26	0.70	Dens	e yellow bi	rown s l igh	tly clayey S	AND and C	RAVEL. Gr	rave	0		
1.00-1.50	С В Т	3,5,6			1		 [is fine (TER	e angular te RACE DE	o rounded	flint. Sand	is fine to c	oarse		a		日
	-	9,10,10 N=35			Ţ			(· · · · ·		E
1.50-2.00	В														· · · · ·		
2.00-2.50	'CIBAL	3,4,8	2.00	o			[· · · · ·		E
2 00 2 50	С197	8,8,13 N=37					-								0		:E
2.00-2.50		3,4,8 8,8,13 N=37					ļ								· · · · · ·		ŀĒ
3 00 3 50	CBPT	4,5,8					-								· · · · ·		
		11,14,11 N=44					F								· : · : a : ·		ŀΕ
							(6.00)								° · · ·	TD	ΙĒ
4.00-4.50	SBT	4,6,9					-	4 00	mbal arav	el become	es fine to m	edium			· · · · ·		kΕ
		11,11,8 N=39						4,001	inisgi, grav			calam.			· · · · · ·		lE
																	ŀΕ
5.00-5.50	SBT	1,3,7					[5 00 1	mbgl, becc	mina arev	/ brown				· · · · · ·		[:]E
5.00-5.50	301	7,6,6 N=26						5.00	5.20 mbg	I, band of	light grey \$	SILT.			°		ŀ≣
															·		ŀΕ
															°		ĿΕ
							E								· · · · ·		ĿΕ
						2.26	6.70										
						1.96	7.00	Stiff o	lark grey fi s (Belemni	ssured an ites) (AMF	Nd very thin PTHILL CL	ly laminate AY).	CLAY with	n rare		AMP	
							Ē			,,		,					
							-										
							E E										
							-										
							Ę										
							-										
Во	ring I	Progre	ess a	nd W	ater	Observ	ations		C	hiselling		Water	Added		GENE	RAL	
Date	Tin	-	Depth			asing ∣Dia.m		er	From	То	Hours	From	То		REMA		
					- opur										ng water lev	vel afte	r 14
														nours i	s 1.4m.		
Date	Tin	ne	Strike	M	inutes	s Stand	ing Casi	ng									
11-07-07			1.40														
All dime			res	Contra	actor	/ Driller			Metho	d/Plant U				Logge	ed By		
Sc	ale 1:	62.5									Cable Perc	ussive Rig			CV	V	



Project														E	BOREH	OLE	No
N	orths	towe													PTN	1004	
Job No			D	^{ate} 2	0-07	-07	Ground	d Le	vel (m AOD) Co-O	rdinates (OS	S)			FIN	100	1
12	1706	26		2	0-07	-07		8	.851	E 5	39695.35	54 N 26	7389.565				
Supervis	ing En	gineer							Client					Sh	eet		
JI	NC /	LF / C	W/	RLC					Gallaghe	Estates &	Eng l ish Pa	rtnerships			1 o	of 1	
SAMF	LES	& TE	STS							STRA	TA						ent/
Depth	Type No	Test Result	P I D Depti	n Result ppmv	Water	Reduced Level	Depth (Thick- ness)			DES	SCRIPTION	I			Legend	Geology	Instrument/ Backfill
0.20-0.70	1111//						(1.10)	SA	ADE GROUI ND. Sand is subangular	s fine to co	arse. Grave	is fine to	ey very grave to coarse ang	elly u l ar		MG	
1.00	SPT	2,2,5 14,19,16				7.75 7.55	- 1.10 1.30	Br	own mott l ed	orange s l i	ohtiv sandv	verv grave	lly CLAY, Gra	ve		TD	
-		N=54/ 255						\is 1	fine to mediu	um angula	r flint (TERF	RACE DEP	ÓSITS).		· · · · ·		::≣::
1.30-1.80	JJAA	200				Ē		De	ense orange edium angul	brown SA ar to subar	ND and GR noular of mi	AVEL Gra	vel is fine to ly including fli	nt	·		[:目:
2.00	SPT	7,8,9				-	-	(TE	ERRACE	EPOSITS).	-				° · · · ·		
F		9,10,10 N=38				Ē		is f	fine angular	to subang	ular flint and	d mixed lith	GRAVEL Gr ology	ave	· · · · ·		
-						Ē			-								::目::
	0.07					Ē	_								· · · · ·		に目い
- 3.00	SPT	3,7,7 10,11,15				Ē		3.0 ara	0 mbg l , bec avelly SAND	coming me	dium dense	orange br	own slightly		· · · · · ·		
		N=43				Ē	(1.00)	0									
Ę						Ē	(4.80)									TD	
4.00-4.50	SPT	5,6,3				Ē	-										「目う
E		5,7,9 N=24				Ē											k:≣:
-						F											l::=::
	OPT					F	-										[::目::
- 5.00	SPT	1,3,4 4,8,8				Ē											::=::
È		N=24				Ē											日・
-						Ē											
L- E						2.75	6.10	C+:	ff dark grey		rara faasik						÷⊟∵
						Ē		ວແ	il dark grey				LL CLAT).				
6.50	SPT	1,3,4 4,8,8				F	(0.90)									AMP	
-		N=24				1.85	7.00										
						Ē											
						Ē											
-						Ę											
-						F	-										
F						Ē											
F						Ē											
Ē						Ē	_										
Ē						Ē											
È						Ē											
						È											
Ba	ring	Drogra	200 0	nd \A/	ater	Observa	ations			Chiselling	7	W/ster	Added			יאם	1
Date	Tin		Depti	_		asina		er	From	То	Hours	From	To		GENE REMA		
Dale			Depu		epth	Dia, mr	m Dpt	:		10	riouis	1000			undwater e		ared
													'	vo grot	unuwater e	acounte	sieu.
Date	Tin	ne	Strike	e Mi	nutes	Standir	ng Casir	ng									
All dime	nsions	in met	res	Contra	actor /	Driller			Meth	od/Plant U			 I	Logge	d By		
So	cale 1:	62.5									Cable Perc	ussive Rig			CV	V	



Project	Vorth	otouro													BOREH	IOLE	No
Job No	vorth	stowe		Date	-		Green	d Lours (0.1				BHE	200	1
	21706	326		- 2	6-09	9-05	Groun	d Levei (n	,		Ordinates		1.19		БП	500	
Supervi					.0-03	-00	_	5.840		E	541099.	561 N 2	267200.02				
	-	LF/C		RLC				Ga		tates	& English	Partnorchi			Sheet		
SAM	PLES	& TE	STS		1	T					RATA		PS .		10	of 1	15
	Туре		PID	Posuli	Water	Reduced	Depth			511	MIA					λβ	nent
Depth	No		Dept	ppmv	15	Level	(Thick- ness)				ESCRIPTIC			P	Legend	Geology	Instrument/ Backfill
0.40						5.44	0.40				y TOPSOIL				<u> 14 AU</u>	TPS	
0.50-1.00	BJJV					4.84	(0.60)	CLAY. G	t brown m Gravel is fi	ne su	d grey and Ibangular c	orange slig halk (KIMN	htty gravelly MERIDGE C	/ sandy (LAY).		KIMM	
1.00-1.50	DB	3,0,2 2,2,3				4.04	1.00	Firm frial	ble brown	mott	led grey an	d orange s	lightly sand	у			
		N=9						Decomin	a less frea	nuent	t from 2 0m	hal Stiff a	angular chai	-	-		目
	Í							laminate	d clay with	n rare	e gypsum fr	om 3.0m (/	AMPTHILL	CLAY).	<u> </u>		目
.00-2.50	DB	3,0,3 2,3,2															
		N=10					(2.90)									AMP	E
																	·目·
.00	U	36 blows				Ē									<u> </u>		
.50	D				1	Ę	1								<u> </u>		· E
.90-4.40	BJJV					1.94	3.90	Mook liet	at analy Oli	TOT		-					目
.00	D	7,0,6 6,7,7 N=26				1.44	(0.50) 4.40				ONE (AMP				****	AMP	
						Ē		Firm to st	aff brownis	sh gra	ey CLAY (A	MPTHILL	CLAY).				目
00	υ	52 blows				-	·								<u> </u>		
						Ē											目.
50	D					E	(2.60)										
						Ē	· I								듣크		目.
50-7.00	DB	700				Ē									드크		
50-7.00		7,0,6 5,5,6 N=22				1 10	7 00										E.
00	D	11-22			\vdash	<u>-1.16-</u>	7.00								[==-]	;	日.
						E E	1										
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	_			_													
				Wat	er O	bservati	ions		Chise	elling)	Water	Added		GENER		_
Date	Time		epth	Der	th	Dia. mm	Water Dpt	Fron	n Ti	0	Hours	From	То	-	REMAR		
														No grou	undwater enc	ountere	d.
ate	Time	: St	rike	Minu	tes	Standing	Casing]									
		-															
dimens	ions in	metres	C	ontracto	or / D	riller	L	M	ethod/Pla	nt Us	ied			Logged	1 By		
Scal	le 1:62	.5									Cable Percu	ussive Rig			DB	2	



	and the second se			-	or / Driller				od/Plant Us				Logged By			
Cau														_		5
Date	Time	5	rike	Minu	tes Star	nding Cas	ing									
	ig Prog Time		and V	Dep	Casing th Dia.	vations mm Dr	ter F	rom	Chiselling To	Hours	From	To	GEN REM	ARK	s	
						<u> </u>			Dhianilia		Water	Added				
	N=17				-0.3											-
5.50-7.00 SHD	T 1,2,3 5,4,5 N=17				-0.3	7 7.00										
5.00-5.45 U																
4.00-4.50 5327	11,4,3 4,4,6 N=17					(5.70)								AMF		
3.00-3.45 U	N=18															
2.00 JSPAN 2.00-2.50 SHOT	5,4,5 N=18 1,3,4 5,4,5															
							Stiff to ve grey mot from 2m	ery stiff g tled dari (AMPT)	grey motile k green bro HILL CLAY	d orange b own and wit).	h rare sele	 Becoming nite crystals 				h
0.50-0.70 JJV 1.00-1.40 U					5.33	(1.10)	(TERRAC	CE DEP	OSITS).					TD		
0.40-0.70 B					6.43	0.20	Stiff to ve rootlets.	ry stiff s Gravel is	lightly sand	y TOPSOII dy slightly g edium angu	ravelly CL lar to subr	AY with rare ounded flint		TPS		
Depth Type No	Test	PID	Bosult	Water	Reduced Level	Depth (Thick- ness)				RIPTION			Legend	Geology	Instrument/ Backfill	
JMC /		-					Galla	agher E	STRATA	ngilsh Partn	ersnips		10		ent/	
Supervising En	ngineer	_					Clien						Sheet 1 0	f 1		
121706	26		14	2-06			6.628		E 541	081.995	N 2672	26.887		_		
Northst	towe		ate			Ground	Level (m /	AOD)	Co-Ordin	ates (OS)			BHB	001	A	
															[



Project						_									BOREH	IOLE	No
Job No	lorths	towe		ate	_					D) I C	-				BHE	300	2
	21706	26		0	8-06 8-06	5-07	Grour		evel (m AO	.	o-Ordinates (· ·	07040.000		Dric	5007	-
Supervis					0-00	-07	_		.330 Client		= 541282.	423 N 2	67212.986	-	heet	-	
		LF / C	w/r	RLC						er Estate	es & English	Partnershin	e	10		of 1	
SAM	PLES	& TES	STS								RATA						>
Depth	Туре	Test	PID Depth	Result	Water	Reduced	Depth (Thick-	1			DESCRIPTIC					Geology	Instrument/ Backfill
	No	Result		pp.mv	-		ness)	MA					htly slity grav	roll r		Geo	Instr Bac
0.40-0.60 0.50	JJJJW		0.50	0		7.68	(0.65)	sa	nd. Sand Is	s fine to a	nedium. Gra alk and rare	vel is fine to	o medium an	igular		MG	
0.65-1.00	B		-					Or	ange brow	n slightly	gravelly very	dayey SA	ND. Sand Is ided flint and	fine to			
1.00-1.45	U						(0.85)	(TE	ERRACE D	DEPOSIT	subangular S).	to subroun	ided filmt and	Chaik		TD	
1.60	D			-		6.83	1.50		ff to very s	liff grev r	notfied Oran	ne brown C	LAY. Becom	ling			·E·
_								ver	y stiff and	mottled	brown with ra	are selenite	crystals fron	n 2.5m			
2.00-2.50	SHOT	1,2,2 2,3,6						~		JLA1).							
		N=13															
3.00-3.45	U						-	-									
2.00-2.45																	
3.50 3.60	jijiw		3.50	o		Ē											
4.00-4.50	SBT	14,10,5				Ē	-										
		3,4,6 N=18					(5.50)									AMP	
5.00-5.50	डस्टा	25,50				Ē	-								EE		
		N=50/ 30				Ę					r.						
1																	
						Ē	·										
	_				ĺ	Ē									트크		
6.50-7.00	अस्य	4,5,7 9,10,1 N=27				4 22	7.00										
		N-27			ł	1.33	7.00										<u>::::</u> []
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Bor	ring P Tim		_			Observation				Chiselli	<u> </u>		Added		GENER		
Date	im		epth	De	pth	Dia. mm	1 Dpt		From	То	Hours	From	То	No	REMAR		
														No grou	undwater er	counter	red.
Date	Time	e s	trike	Min	utes	Standing	Casin										
		\neg						-									
							_										
All dimen Sca	ale 1:62		s C	Contrac	tor / I	Driller	100		Meth	od/Plant		cussive Rig		Logged	d By		



Project														В	OREH	DLE I	No
N	orthst	owe													BHB	003	
Job No			Da	ate 07	'-0 6	-07	Ground	Level	(m AOD)		inates (OS)				Drib	000	
121	17062	26			-06			7.08	0	E 54	1519.363	N 267	000.028				
Supervisi	ng Eng	gineer						1 -	Client					She			
JI	// N	F/C	W/F	RLC					Gallagher	Estates & E	English Part	nerships			1 0	f 1	
SAMP	LES	& TES	STS							STRAT	A					N	- Jent
Depth	Type No	Test Result	PID Depth	Result ppmv	Water		Depth (Thick- ness)				CRIPTION				Legend	Geology	Instrument Backfill
0.00-0.30	В					6.78	0.30	Grass	s over bro	wn slightly (gravelly san	dy clay TO	PSOIL with ar to subang	ular	<u> </u>	TPS	
0,30-0.90 0,30-0.50	111AAA		0.30	0		6.48	0.60	\flint.								TD	
0.00 0.00				1			-	\ mediu	um suban	sandy CL/ guiar to rou	AY with cob nded flint g	ble sized p ravel (TER	ockets of fin RACE	e to			
1.00-1.35	11V U		1.20	0			(1.20)	Soft	OSITS).	ance and o	rev sandv s	lightly grav	elly CLAY wi	/	· · · ·	TD	
1.50-1.80	в	Į						rare o	course ora	vel sized p	ockets of gi nded (TER	ev silt. Gra	vel is fine to				
	1					5.28		Media	um suban um dense	brown orar	nge sandy (GRAVEL. O	Gravel is fine	_	°0.00	TD	間に
2.00	SPT	1,2,3 4,4,6				4.98	<u>- 2.10</u>	flint. (TERRAC	e deposi	TS).			/			
2.10-2.50	в	N=17					(1.00)	Firm	grey motti	ed orange	CLAY (AMI	- I MILL CL	AT).			AMP	525 B
2.10 2.00	_																
3.10-3.55	झ्य	18,7,5	3.10	0		3.98	- 3.10	Firm	arev CLA	Y with woo	d remains a	nd pockets	or bands of	light			
0.10-0.00		5,6,6 N=22	0.10			3.53	3.55	grey	friable silt	(AMPTHIL	L CLAY).					AMP	1 1 1
3.10-3.55	SIFT	18,7,5 5,6,6		1			-	Stiff g	grey CLAN	(KIMMER	IDGE CLA	Y).				-	
-	١	N=22					F									}	
4.10-4.35	U						Ę									}	
4.60	D						-									1	1:1日
,				1			F										
5.10-5.55	डस्टर	2,3,5 6,6,6					(3.45)									KIM	
		N=23					ŧ									1	
-						1	Ę								===	1	目
	1						E									-	
6,50-7.00	अस्त	2,3,5 5,4,5					ŧ									1	
-		N=19				0.08	7.00	1									1. HI
				1		-	Ę										. (
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	1		1				E										
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							Ē										
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-	1						F										
							E										
P	oring	Progr		nd \A	late	r Observ	ations	1		Chiselling	1	Water	Added		GENE	RAI	
Date		me	Dept			Casing		ter	From	То	Hours	From	То		REM/		
Date	+-"		Dep	-	Dept	n Dia.r	nm D	<u>J</u>						No gro	oundwater	encoun	tered.
		1								30				-			
							_										
Date	+-T	ime	Strik	e N	linut	es Stand	ling Cas	ang									
	1																
				Cont	racto	r / Driller		II	Meth	od/Plant U	sed			Logo	ed By		
All dim	ensior Scale 1	ns in me 1 62 5	eres	Cont	auto				Net		Cable Perc	ussive Rig			Ĩ, RI	C	



Project														BORE	IOLE	No
Job No	lorths	stowe												BH	200	4
	21706	26			3-09		Groun	d Level (m AOD)		Ordinates (0				Drit	500.	•
Supervis		_		2	3-09	9-05	_	8.090	E	541299.5	543 N 2	67000.04				
		LF/C	w//	RIC				Client	Falatas				S	heet		
		& TE			T			Gallagher		& English F	artnership	s		1 (of 1	
SAIVIT	T		PID		Water		Depth		STR	ATA	_			_	2	nent
Depth	Type No	Test Result	Depth	Result ppmv	Ň	Reduced Level	(Thick- ness)			SCRIPTIO				Legend	Geology	Instrument/ Backfill
						7.69	0.40	Firm dark brown fine to medium	n sandy subangi	slightly grav Jar filnt.	velly clay T	OPSOIL. Gr	ravel is	<u></u>	TPS	
0.40 0.50-1.00 0.80 1.00-1.50	D BJJV DB	2,0,3 2,2,3 N=10					(1.60)	Medium dense fine to medium more gravel from (TERRACE DE	subangu m 1.0m.	lar chaik a With orang	nd filint. Be	coming oran	nae with	0 0	то	
1.80	D					6.09	2.00							· · · a · ·		
2.00-2.50	DB	3,0,2 2,3,3 N=10						Firm to stiff dark medium subang (KIMMERIDGE	ular flini	with rare fi	ossils from	Gravel is fine 3.5m bgl	e to			
3.00	υ	47 blows					-(2.00)								KIMM	
3.50	D															
						4.09	4.00									
4.00-4.50	DBIJV	4,0,5 5,4,5 N=19					(1.00)	Stiff dark grey si chalk (KIMMER	ightly gr IDGE CI	avelly CLAY LAY REWC	Y. Gravel is RKED).	s fine subang	gular			
						2 00								2	KIMM	
5.00-5.50	DB	5,0,6 4,5,6 N=21				3.09	<u>5.00</u> -(2.00)	Stiff dark grey gr subrounded to r (AMPTHILL CL4	ounded	chalk and fl	el is fine to int. With no	medium o gravel fron	n 6.5m		AMP	
6.50-7.00 - 7.00	DB D	6,0,7 6,6,7 №=26				1.09	7.00									
	-						-									
						<u> </u>			9							
Bor	ing P Tim					Observa			niselling			Added		GENER		
Jale			epth	De	pth	sing Dia. mn	n Dpt	From	То	Hours	From	То	<u> </u>	REMAF		ed.
Date	Time	e s	trike	Min	utes	Standin	g Casing		-	. 12						
All dimen	sions li ale 1:62		s C	ontrac	tor / [Driller		Method/			à. ma		Logged	Ву		
308	ale 1.04	2.0		_		3 - F				Cable Perc	ussive Rig			DB		



Project		1												B	OREHO	DLEN	10
No	rthst	owe											E.		BHB	006	
Job No			Da	ate 22	2-09-	05	Ground		(m AOD)		nates (OS)						
121	7062	26			2-09-			7.99	10	E 540	899.566	N 2670	000.000	She			-+
Supervisir	-	-							Client					Sne	1 of	F 1	
JN	AC / L	F/C	W/F	RLC					Gallagher	Estates & E		nersnips					5
SAMP	LES				5					STRAT	Α					2	ll nen
Depth	Type No	Test Result	PID Depth	Result ppmv	Water		Depth (Thick- ness)				RIPTION				Legend	Geology	Instrument/ Backfill
0.40	D					7.49	(0.50) 0.50			dy clayey TO			much in fino	10	<u>1</u>	TPS	
0.50-1.00 0.60	BD					6.99	(0.50) <u>1.00</u>	medi	um suban	n sandy slig gular flint (T hinated brow	ERRACE D	EPOSITS).			TD	
1.00-1.50	BD	1,2,2 2,3,2 N=9					(1.30)	slight	ly gravelly	CLAY. Gra POSITS).	vel is fine to	o medium	chalk and fli	nt		тр	
2.00-2.50	BD	2,2,3 3,4,4				5.69	2.30						A ADAMA CA	ND	0		
2.60	D	N=14				5.39	2.60	Grav	el is fine t	orange clay o medium s	vey very gra ubangular f	lint (TERR	ACE	ND.	<u> </u>	TD	
3.00-3.45	U	37 blows				4.69		Firm	e to medi	ottled orange um subangu	lar flint (AN	IPTHILL C	LAY).	avel		AMP	
						4.39	3.60	Very	weak ligh	t grey SILTS	STONE (AM	IPTHILL C	LAY).		×××	KIMM	
3.50 4.00-4.50	B	2,3,4 4,3,4						Firm seler	becoming hite crysta	g stiff grey m Is from 4.0m	ottled dark bgl (AMP	grey CLA THILL CL ^A	Y with rare (Y).				
4.00	D	N=15 2,3,4 4,3,4 N=15														AMP	
5,00-5.50	BD	3,3,4 5,5,4 N=18					(2.90)										
6.50-7.00	BD	3,4,6 5,6,6				<u>1.49</u> <u>1.29</u>		Very	weak ligh	nt grey SILT	STONE (A	MPTHILL (CLAY).		×××	AMP	
7.00	D	N=23				0.99	7.00	Stiff (AM	grey mott PTHILL C	led dark gre LAY).	y CLAY wit	h rare sele	nite crystais	⁄			
			×														
B	orina	Proar	ess	and V	Vater	Observ	ations			Chiselling		Water	Added		GEN		
Date		îme	Dep		Depth	Casing	nm D	nter pt	From	То	Hours	From	То		REM/		
Date	т	īme	Stri	ke 1	Minute									No gr	oundwater	encoun	tered.
		ns in m 1:62.5	etres	Con	tracto	r / Driller			Met	hod/Plant U	sed Cable Perc	ussive Rig		Logg	ed By	B	



Project						BOREH	IOLE	No
Job No	Date as as as	Ground Level (n				BHE	3007	,
12170626	23-09-05 23-09-05	9,160		Ordinates (OS) 540899.566	N 966900 000		5007	
Supervising Engineer			ent	540699.506	N 266800.020	Sheet		
JMC / LF / CW	// RLC			& English Partne	rshins		of 1	
SAMPLES & TES	rs		STR					Þ
		Depth hick- ss)		SCRIPTION		Legend	Geology	Instrument/ Backfill
0.50-1.00 BJJV	8.66	0.50	wn sandy clayey			<u>11.</u>	TPS	
	8.16	0.50) Loose bi 1.00	rownish orange subrounded to	gravelly dayey S subangular flint (AND. Gravel is fine TERRACE DEPOSI	to TS).	TD	
1.00 12,2 3,2,2 N=9 1.50-2.00 B		Gravelis	medium dense s fine to medium ERRACE DEPC	1 subangular flint	dayey gravelly SAND and fine subrounder	d	TD	
2.00-2.50 BJJV 1,1,3 3,3,2 N=11	6.86	2.30 Firm gre	y slightly graveli	y CLAY. Gravel	is fine subrounded			
3.00-3.50 B 2,2,3 4,4,3 N=14	(2	I from 3m bgl. DGE CLAY						
4.00-4.50 B 2,2,4 3,4,5 N=16				KIMM				
5.00-5.50 B 2,3,5 6,7,7 N=25		.20)	grey very grave KED).	IIY CLAY (KIMM	ERIDGE CLAY		KIMM	
6.00 5.7.6 5.5.6 N=22 6.50-7.00 BJJV	2.96 (0. 2.16	6.20 Stiff thick 80) 7.00	ly laminated dar led chalk and flin	rk grey gravelly (nt (KIMMERIDG	CLAY. Gravel is fine E CLAY REWORKE	D).	кімм	
	and Water Observatio		Chiselling	W	ater Added	GENER		
Date Time Dep	Casing Depth Dia.mm	Water From Dpt 4.9		Hours Fro		REMAR		
5						ng to 1.6m after		
Date Time Stril 2.2		Casing						
All dimensions in metres Scale 1:62.5	Contractor / Driller]]	Method/Plant Us	ed Cable Percussive	Rig	gged By LF		



Northslowe BOREHOLE No BOREHOLE No BOREHOLE No 12170626 Z1-09-05 Ground Level (m ADD) 21-09-05 Co-Ordinates (OS) 9.790 E 541093 579 N 266800.029 Sheet 1 of 1 SAMPLES & TESTS Samerica (Page) mask and page to 10 fmt Ground Level (m ADD) 21-09-05 Co-Ordinates (OS) 9.790 E 541093 579 N 266800.029 Sheet 1 of 1 SAMPLES & TESTS Samerica (Page) mask and page to 10 fmt Samerica (Page) Test and page to 10 fmt Soft fmom samerica (Page) TOPOOL Lagence (Page) (CoS) 2.00 Soft fmom samerica (Page) TOPOOL Co-Ordinates (OS) 2.00 Trs 100 1 9 Add to fmt fmom and gay samely digityl grawdy CLAY (Cravel Becoming film fom 1.1m (TERRACE DEPOSITS). Trs Trs 2.00 0 0.05 0 Saft gray vary grawdy CLAY with rare feasib. Gravel is fine chall (MMMERIDGE CLAY REWORKED). Trs Trs 3.09.00 0.06 0.080 0.080 Saft gray vary grawdy CLAY with rare feasib. Gravel is fine chall (MMMERIDGE CLAY) Trs Trs 3.09.0 0.080 0.080 Saft gray CLAY (KIMMERIDGE CLAY). Trs Trs 3.09.0 0.080 Saft gray CLAY (KIMMERIDGE CLAY). Trs KIMME	All dim	ension Scale	ns in m 1:62.5	etres	Con	tracto	or / Drille	эг				Meth	od/Plant U	sed Cable Perc	ussive Rig	l	Log	ged By	B	
Northstowe Date 21-03-05 Ground Level (m AOD) Co-Ordinates (OS) BHB008 12170626 21-03-05 9.790 Co-Ordinates (OS) E 541099.579 N 266800.029 Spending Engineer JMC / LF / CW / RLC Clent Steel 1 of 1 SAMPLES & TESTS Roduced Depth / Nwe Test Depth / Remut Roduced Depth / Check DepcRimentation (m ADD) DESCRIPTION Longenetic 1 of 1 0x0-100 psi/ve Test Depth / Remut Roduced Depth / Check DESCRIPTION Longenetic Test Depth / Remut R	Date	Т	ĩme	Str	ike	Minut	es Sta	andin	ng Cas	ing									_	
Northstowe BHB008 60:No Date 21-09-05 21-09-05 9.790 Co-Ordinates (OS) E 54 1099.579 N 266800.029 Sperking Engreer JMC / LF / CW / RLC Clent Sheet 1 of 1 SAMPLES & TESTS B Reduced Chief Sheet 1 of 1 Sources Simpler Estates & English Pertnerships 1 of 1 Image: Sheet 1 of 1 Sources Simpler Estates & English Pertnerships 1 of 1 Image: Sheet 1 of 1 Sources Sources Sources Sources Sheet 1 of 1 Sources Sources Sources Sources Sources Sources 1 of 1 Sources	Uale	1	uire			Dept	n Die	<u>. m</u> a									No g	roundwate	rencou	ntered.
Northstowe Date 21-09-05 Ground Level (m AOD) Co-Ordinates (OS) BHB008 12170626 21-09-05 9.790 E 541099.579 N 266800.029 Sheet JUDP Transport Client Sheet 1 of 1 SAMPLES & TESTS B Education States & English Partnerships 1 of 1 Source States & Tests B Education Soft brown sandy clayey TOPSOIL States & English Partnerships 1 of 1 State States & Tests B Soft brown sandy clayey TOPSOIL States & English Partnerships 1 of 1 State States & Tests B Soft brown sandy clayey TOPSOIL States & English Partnerships 1 of 1 State States & Tests B Soft brown sandy clayey TOPSOIL States & English Partnerships 1 of 1 State States & English Partnerships Soft brown sandy clayey TOPSOIL States & English Partnerships T PS State States & English Partnerships Soft brown sandy clayey TOPSOIL States & English Partnerships T PS State States & English Partnerships Soft brown sandy clayey TOPSOIL States & English Partnerships T T T			<u> </u>							ter	Fre									
Northstowe Date 21:09-05 Ground Level (m AOD) Co-Ordinates (OS) BHB008 12170626 21:09-05 9.790 E 541099.579 N 266800.029 Sheet Jupervising Engmeer Client Galagher Estates & English Partnerships 1 of 1 SAMPLES & TESTS Test PD Result Result Result Soft trown sandy dayey TOPSOIL Street 50-100 BLJV No Result 9.29 0.50 Soft trown sandy dayey TOPSOIL Street Street 50-100 BLJV No Result 9.29 (0.50) Soft trown sandy dayey TOPSOIL Street Street 50-100 BLJV No Result 9.29 (0.50) Soft trown sandy dayey TOPSOIL Street Street 50-100 BLJV No 8.63 Soft to firm frown and grey sandy slightly gravely CLAY. Gravell Street Street 500-100 D 9.29 (0.50) Soft from 1.1 m (TERRACE DEPOSITS). Street Street Street 100 D 8.05																				
Northstowe BHB008 both No Date 21-09-05 Ground Level (m AOD) Co-Ordinates (OS) E 541099.579 N 266800.029 Supervising Engraneer Client Sheet 1 of 1 JMC / LF / CW / RLC Client Sheet 1 of 1 SAMPLES & TESTS Test PiD Result Reduced (make a constrainty constraints constrainty constrainty constrainty constraints constrainty constraints constra	-																			
Northstowe BHB008 bit No Date 21-09-05 9.790 Co-Ordinates (OS) E 541099.579 N 266800.029 Jupervising Engreer Clent Sheet 1 of 1 JMC / LF / CW/ RLC Clent Stream 1 of 1 SAMPLES & TESTS Result B 1 of 1 Samper strest Clent Depth Dephh Dephh Dephh </td <td>7.00</td> <td>D</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Ē</td> <td>1.00</td> <td></td>	7.00	D						Ē	1.00											
Northstowe BHB008 bit No Date 21-09-05 Ground Level (m AOD) Co-Ordinates (OS) E 541099.579 N 266800.029 Supervising Engineer JMC / LF / CW / RLC Client Sheet 1 of 1 SAMPLES & TESTS Breuced (mick- ness) Soft brown sandy clayey TOPSOIL Sheet 1 of 1 Sono bally Result Depth prm Reduced (mick- ness) DESCRIPTION Legend for User (mick- ness) Soft brown sandy clayey TOPSOIL State the same sandy cl							2	_ E 1	• •		n grey		(,		.,.				KIMN	
Northstowe BHB008 bit No Date 21-09-05 21-09-05 21-09-05 21-09-05 9.790 Ground Level (m AOD) Co-Ordinates (OS) E 541099.579 N 266800.029 Sheet appenvising Engineer JMC / LF / CW/ RLC Client Galagher Estates & English Partnerships Sheet 1 of 1 SAMPLES & TESTS B Reduced Depth Level (m AOD) DESCRIPTION Legend 0.029 tool / JMC / LF / CW/ RLC States & English Partnerships Sheet 1 of 1 SAMPLES & TESTS B Reduced Depth (mass) DESCRIPTION Legend 0.029 tool / Depth No Result Depth (mass) Soft bork mass andy dayey TOPSOIL. Soft bork mass and think and flim. Soft bork mass and think and flim. Soft bork mass and think and flim. 100 D B Soft bork mass and thi	5.80	D	8,9,9					E		We						LAY).		× × × × × × × ×	KIMN	
Northstowe BHB008 BHB008 BHB008 BHB008 BHB008 BHB008 BHB008 BHB008 BHB008 Same to be a state of the state of th			5,4,5 N=18				3.	99	5.80											
Northstowe BHB008 ib No Date 21-09-05 21-09-05 9.790 Co-Ordinates (OS) E 541099.579 N 266800.029 Upervising Engineer Client Gallagher Estates & English Partnerships Sheet JMC / LF / CW / RLC Client Gallagher Estates & English Partnerships Sheet SAMPLES & TESTS B Result Depth Result Soft to firm brown sandy clayey TOPSOIL Client Gallagher Estates & English Partnerships The Soft to firm brown and grey sandy slightly gravelly CLAY. Gravel is fine to medium subrounded to subangular chaik and tint. Depth Type Test PID Result Soft to firm brown and grey sandy slightly gravelly CLAY. Gravel is fine to medium subrounded to subangular chaik and tint. B \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$			7.0.4																	
Northstowe BHB008 Northstowe BHB008 bb No Date 21-09-05 Ground Level (m AOD) Co-Ordinates (OS) 12170626 21-09-05 9.790 E 541099.579 N 266800.029 Image: Collect			69 blow	s				Ē	(2.80)										KIMN	
Northstowe BHB008 bit No Date 21-09-05 Ground Level (m AOD) Co-Ordinates (OS) 12170626 21-09-05 9.790 E 541099.579 N 266800.029 Sheet Intervising Engineer Client Sheet 1 of 1 SAMPLES & TESTS Test PID Result Depth Result Depth Result Depth Result Depth Result Depth ODD Soft brown sandy clayey TOPSOIL. Soft brown and grey sandy slightly gravelty CLAY. Gravel 100 Legend find Legend find Legend find Depth Type Result Depth Result Re			N=18								ar (1 1 4			.,						
Northstowe BHB008 Northstowe Date 21-09-05 21-09-05 Ground Level (m AOD) 20-Ordinates (OS) E 541099.579 N 266800.029 BHB008 12170626 21-09-05 9.790 E 541099.579 N 266800.029 Sheet upervising Engineer Client Gallagher Estates & English Partnerships 1 of 1 SAMPLES & TESTS 1 1 1 1 Depth Type Test PID Result Depth No Result 0 0.50 Soft brown sandy clayey TOPSOIL. 1 150-1.00 DBJJV 0 0.50 Soft to firm brown and grey sandy slightly gravelly CLAY. Gravel is fine to medium subrounded to subangular chalk and flint. Becoming firm from 1.1m (TERRACE DEPOSITS). 0	3.00-3.50	DBJJV	8,0,5				6.7	79 ^E	3.00	Stiff	f grey	very g	ravelly CL/	AY with rare	e fossils. G	ravel is fine)	0	-	
Northstowe BHB008 BHB008 BHB008 BHB008 Supervising Engineer Client JMC / LF / CW / RLC Sheet SAMPLES & TESTS Stream Depth Type Test Depth Depth Depth Reduced Depth No Result Depth galagher Estates & English Partnerships 1 of 1 SAMPLES & TESTS Depth Type Test Depth Reduced Depth Justice 1 0.50 Soft brown sandy clayey TOPSOIL. Image: Clayed transmit form transmit for transmit form transmit for tr		-																 		
Northstowe BHB008 BHB008 Obte 21-09-05 21-09-05 9.790 Co-Ordinates (OS) E 541099.579 N 266800.029 Supervising Engineer Client Gallagher Estates & English Partnerships 1 of 1 SAMPLES & TESTS PID Result Reduced Thick- ness) Depth Depth Result Soft to firm brown and grey sandy slightly gravely CLAY. Gravel is fine to medium subrounded to subangular chalk and flint. Becoming firm from 1.1m (TERRACE DEPOSITS).			39 blows						2.50)										TD	
Northstowe BHB008 BHB008 BHB008 Client 12170626 21-09-05 9.790 E 541099.579 N 266800.029 Supervising Engineer JMC / LF / CW / RLC SAMPLES & TESTS pepth Type Test PID Result PID Result Depth Depth DESCRIPTION Legend 0.50-1.00 pBJJV page (0.50) Soft to firm brown and grey sandy slightly gravelly CLAY. Gravel			6,0,3 3,4,3 N=13							200										
Northstowe BHB008 BHB008 BHB008 BHB008 Supervising Engineer Client Sheet Sheet <	0.50-1.00	DBJJV					9.2	5	0.50	Soft is fir	to firm	n brow nediur	n and grey n subround	sandy slig led to suba	htly graveli ngular cha DEPOSIT	y CLAY. Gr lk and flint. S).	avel			
Northstowe BHB008 BHB008 BHB008 BHB008 Supervising Engineer Client Supervising Engineer Client Sheet JMC / LF / CW / RLC SAMPLES & TESTS Beduced Depth Type Test Pip Result Beduced Depth Type Test Pip Result Beduced Depth Depth Type Test Pip Result Beduced Depth Legend Depth Legend Depth		NO	Kesult		ppine			-		Soft	brown	n sand	ly clayey T(OPSOIL.				<u>14 84</u> 4 24 8		
Northstowe No Date 21-09-05 Ground Level (m AOD) Co-Ordinates (OS) BHB008 12170626 21-09-05 9.790 E 541099.579 N 266800.029 upervising Engineer Client Sheet JMC / LF / CW / RLC Gallagher Estates & English Partnershlps 1 of 1		Туре			Result	Water		ግጦ	hick-									Legend	seology	nstrum 3ackfill
Northstowe BHB008 bb No Date 21-09-05 Ground Level (m AOD) Co-Ordinates (OS) BHB008 12170626 21-09-05 9.790 E 541099.579 N 266800.029 Sheet supervising Engineer Client 1 of 1		_	_		RLU						Galla						1		-	ent
Northstowe BHB008 bb No Date 21-09-05 Ground Level (m AOD) Co-Ordinates (OS) 12170626 21-09-05 9.790 E 541099.579 N 266800.029		-								1				nalish Part	orebloe				f1	
Northstowe BHB008	121	7062	26						_	9.7	90		E 541	1099.579	N 2668	300.029				
Ujeci .	_	ilist	owe	D	ate o		05		Ground	Leve	el (m A	OD)	Co-Ordin	nates (OS)			1	BHR	8008	



Project								_					_		BOREH	OLE	No
	lorths	towe	1-												DUD	2000	•
Job No			D		1-09		Grour		evel (m AO		o-Ordinates ('	- F		BHE	5003	9
12 Supervis	1706			2	1-09	9-05		8	.190		E 541299.	563 N 2	66800.035	_			
	-	LF / CV	// 5						Client					Sł	neet		
						T			Gallagn		s & English I	artnership	5		<u> </u>	of 1	
SAIVI		& TES	PID	-	Water	<u> </u>	Depth	-		SI	RATA					5	nent
Depth	Type No		epth	Result ppmv	Ň		Thick- ess)			_	DESCRIPTIC				Legend	Geology	Instrument/ Backfill
0.40						7.79	0.40				ey TOPSOIL				<u></u>	TPS	
0.50-1.00	BJJV					7.39	0.80	Fin	m orange l dium subr	brown sa ounded t	indy slightly g fint and chall	ravelly CLA	Y. Gravel is E DEPOSITS	fine to	1.9	TD	
0.80	D	5,0,6 4,4,5			Ţ	-		Me	dium dens	se orange ID. Grave	e brown sligh	tly clayey ve edium suba	ery gravelly fir	ne to			19 - 19
1.50-2.00	в	N=19			¥	Ē	(1.50)	su	brounded f	fint and c	halk (TERR/	ACE DEPO	SITS).			TD	
					Ŧ	Ē	(1.00)								· · ·	TD	
2.00-2.50	DBIJV	4,0,5 5,4,5				5.89	2.30								•••••		目.
		N=19			(i	Ē	(0.60)	Fin	m grey CL	AY (KIM	MERIDGE C	LAY).					
						5.29	2.90									KIMM	
3.00-3.50	DB	3,0,2 3,4,4				4.99	3.20				CLAY (KIMN		LAY). ing from 6.0r			KIMM	
. 5		N=13				Ē		(KI	MMERIDG	E CLAY).	Drownmou	ing irom 6.0r	n			
4.00-4.50	BRIN	202	-	-		Ē											
4.00-4.50	DBJJV	3,0,3 4,4,5 N=16				Ē											
						Ē											·目:
5.00	υ	7 blows				Ę,	3.80)								<u> </u>		
						ŧ	3.50)								===	KIMM	
5.50						Ę	Ì										:目:
						F									<u> </u>		
						Ę											·目:
6.50	DU	'3 blows			ļ	1 10	7 00										
7.00	D				ŀ	1.19	7.00										
						ŧ											
						Ē											
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T						Observatio				Chiselli	ng	Water	Added		GENER		
Date	Tim	e De	pth	De	pth	Dia. mm	Wate Dpt	Ц	From	То	Hours	From	То		REMAR		
				1										Groundv 1.7mr.is	water encor	untered	at 5
														mins.	-		2
Date	Time		ike	1.0		N	0										
Date	Time	Str 1.7		<u>Min</u>	utes 5	Standing 1.30	Casin	┛╢									
All dimen			0	ontrac	tor / I	Driller			Metho	od/Plant				Logged	By		
Sca	ale 1:62	2.5		111							Cable Perc	ussive Rig			DB		



Project	2													B	OREH	OLEI	No	
No	orthst	towe													BHB	8010		
Job No			D	ate 21	1-09	-05	Groun		el (m AOD)		inates (OS)				22			
	17062			21	1-09	-05		6.7	60	E 54	1499.553	N 266	800.035	She				
Supervisi		-						1	Client					Sn	1 o	5 1		
JN	AC / L	LF/C	W/F	RLC					Gallagher I		English Part	nerships			10		5	i I
SAMP	LES	& TES	STS		5			_		STRAT	A					λß	nent	
Depth	Type No	Test Result	PID Dept	Result ppmv	Water	Reduced Level	Depth (Thick- ness)				CRIPTION				Legend	Geology	Instrument/ Backfill	
						6.26	(0.50)		brown sand			atiability and		<u> </u>	4 2 4 1 X	TPS		
	DBJJV					5.96	0.80	Grav	vel is fine to	medium s	ubangular f	int and cha	avelly CLAY alk (TERRA	ĊE ,		TD		
0.80	D U	34 blows			↑		(0.60)	\DEP	POSITS).		e and grey s			/		TD	l	
					Į Į Į Į Į	5.36 5.16	1.40		Y. Gravel is	s fine subro	ounded chal	k (TERRA	CE DEPOS	ITS).		TD	{	
1.50	D				-	5.10	1.00	ւլլզո	t brown clay	yey slightly	sandy GRA	VEL. Grav	vel is fine to		°			
- 2.00-2.50	DB	302					÷	Firm	hecomina	stiff arev s	andy slight	gravelly (LAY, Grave	el is		1	(
2.00 2.00	1	3,0,2 2,3,2 N=9					-	fine	to medium Y REWOR	subangula KED)	r to subrour	nded flint (F	KIMMERIDO	GE				
				· ·			- (2.20)									KIMM		
<u> </u>		ka Li			ļ											1		
- 3,00	U	48 blows					E									1		
3.50	D					2.96	- - 3.80								Êċ			
				1		2.50		Firm	n to stiff dar	k grey CLA	Y with rare	fossils fro	m 5.9m. No)		-	1	
4.00-4.50	DBJJA	4,0,3 4,5,5 N=17					1	foss	ails from 6.5		RIDGE CL	AY).				1		
	1	N=17					E										1	
							Ē									-		1
5.00	U	78 blow	s	1			Ē									1		
- 							[(3.20)								E	KIMN	u l	
5.50	D					1	E									-	1	
6.00		5,0,6					Ē									-		
Ę		6,7,8 N=27					Ę									-		
6.50-7.00	DB		Í	1			-											
7.00						-0.24	- <u>7.0</u> 0	4					-			1		1
1							E	1										Y
Ē							E	1								1		
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E							ŧ											1
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-							E											
Ę							E											
E							ŧ								1			1
В	oring	Progr	ess	and W	Vate	r Observ	ations			Chiselling	3	Water	Added		GEN			
Date		ime	Dep	th	Dept	Casing	nm D	ater pt	From	То	Hours	From	То		REM	ARKS	;	
<u> </u>				- -											ndwater en rising to 1.			
														mins.				
Date	+	īme	Stril	ke N	linut	es Stand	ting Ca	sing										
Dute	+		1.5		15	1.2												L
																-		
All dim	ensior	ns in me	etres	Cont	racto	r / Driller			Meth	od/Plant U				Logg	ed By			T
		1:62.5									Cable Perc	ussive Rig		1	D	B		



Project															BORE	IOLE	No
	Vorths	stowe													DU	301 [,]	4
Job No	4700			ate 2	1-09	9-05	Grour		evel (m AO	,	Ordinates (teres (БЦ	501	1
12 Supervis	21706			2	1-09	9-05		6	5.630	E	541499.8	553 N 2	66600.030			_	
	-	LF / C	A/ / 8						Client					S	heet		
						1			Gallagh		& English F	Partnership	S		1 (of 1	
SAM	LES	& TES	PID		fer	<u> </u>	Depth			STF	ATA		_			2	lent/
Depth	Type No	Test Result	Depth	Result ppmv	Water	Reduced Level	(Thick- ness)				ESCRIPTIC				Legend	Geology	Instrument/ Backfill
						6.23	0.40				Y TOPSOIL				<u></u>	TPS	
0.50-1.00	DBJJV							Fir	m brown s edium suba	andy sligh	ntly gravelly on the and chalk	CLAY, Gra	vel is fine to E DEPOSITS	3)			1
1.00	U	50 blows								9		(]	
							(1.50)									TD	
1.50	D					4.73	1.90										
-1.90	DB	9,0,7				4.13	- 1.90	Sti	iff to very st	tiff grey m	ottled brown	sandy CL	AY (KIMMER	RIDGE	-		
2.00-2.00	ľ	10,8,10 N=35					(1.00)		_AY).							КІММ	
					Į¥ Į¥	3.73	32									IN INVIEN	
3.00-3.50	BJJV	12,0,7			÷		-	W	eak light gr	ey SILTS	TONE (KIMI	MERIDGE	CLAY).		XXX		
		10,8,10 N=35				3.23	(0.50) 3.40			-					× × × × × × × × × × × × × × × × × × ×	KIMM	
								an	d darker wi	ith yellow	mottling, fos	sils and fin	Becoming ve e subrounde	ry stiff d			
4.00-4.50	DB	6,0,3					-	ch	alk from 5.0	0m (KIMM	IERIDGE CI	LAY).		-			
		3,5,3 N=14															
							(2.80)										
5.00	U.	00 blows	i			Ē	- (2.80)									КІММ	
						Ę											
5.50	D					Ē											
						0.43	6.20								i i i i		
6.20	D	-			Ī	- 0.40		Sti	ff to very st	iff friable l	ight grey sa	ndy CLAY	(KIMMERIDO	ĜE			
6.50		10,0,5 10,8,10			ŀ	-0.07	(0.50) 6.70		AY).	IT dade and						KIMM	
6.70	D	N=33			ł	-0.37	7.00	fine	e subround	ed chalk (KIMMERID	ellow CLAY GE CLAY).	Y with fossils	and	===	КІММ	
7.00	D					ļ											
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						-	.										
						Ē											
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		1				E	.										
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						Ē										1	- 1
Bo	ring P	rogres	s an	d Wa	ter C	Dbserva	tions			Chisellin	a	Water	Added		GENE		
Date	Tim	e D	epth	De	Ca	ising I Dia, mm	Wate	r	From	То	Hours	From	То		REMA		
															water enco		at
											1			2.9m ris mins.	sing to 2.7m	n after 5	5
Date	Tim	e St	rike	Min	utes	Standing	g Casin	g				-					
		2	.90	0	5	2.70	1.00										
			_														
Ali dimen	sions i			Contrac	tor / I	Driller			Meth	od/Plant L		unalue Di-	÷. ••	Logged	By		
				_	_						Cable Perc	ussive Rig			DB		



Project														B	OREH	OLEI	No	
No	orthst	owe													BHE	1012		
Job No			De	ate 20)-09	-05	Ground	Leve	el (m AOD)		inates (OS)				DITL		'	
121	17062	26			0-09			7.7	'00	E 54	1299.557	N 266	600.030					
Supervisi	ng Eng	gineer							Client					She				
JN	/IC / L	F/C	W/F	RLC					Gallagher B	Estates & E	English Part	nerships			1 c	of 1		
SAMP	LES	& TES	STS							STRAT	A						ent	
Depth	Type No	Test Result	PID Depth	Result ppmv	Water		Depth (Thick- ness)			DESC	CRIPTION				Legend	Geology	Instrument/ Backfill	
						7.10	(0.60)	Soft	brown sand	ly clayey T	OPSOIL.				<u>1. 54</u> 7	TPS		
0.50-1.00 0.60 1.00-1.50	BJJV D B	603				7.10		san	n to stiff lami dy slightly gr RRACE DE	avelly CL4	/ mottled bro Y. Gravel is	own and o	ange slighti bunded chai	y k		тр		
-		6,0,3 4,3,5 N=15				6.00	(1.10) 1.70			_								
1.70 2.00-2.50	B	7,0,3 4,3,5 N=15					(1.20)	grav Bec	n to stiff brow velly CLAY. coming very proximately AY).	Gravel is fi	ine to mediu with fossils.	im flint and	i chalk. selenite crvs	stals		кімм		D
E.2 00	D					4.80	- <u>2.90</u> - <u>3.10</u>	We	ak grey SIL	ISTONE (KIMMERIDO	GE CLAY)			2.2.2	KIMM		
2.90 3.00 3.10	D	8,0,5 7,8,7 N=27				-+.00	.5.10	Stiff	f grey slightly	y sandy Cl	AY (KIMME	RIDGE C	LAY).					
4.00-4.50	DBJJV	7,0,3 4,5,5 N=17					(3.20)									KIMM		
5.00	U	39 blow	s															
E				1		1.40	6.30											
6.30 6,50	D	9,0,5 4,7,9				0.90			eak grey SIL						****		1 1	
7.00	D	N≈25	1			0.70	<u>7.00</u>	50	ff grey CLAY	(KINNEP	CIDGE CLA	i)				- Savar	<u>+</u>	
E R		Proor	ess		/ate	r Observ	F		(Chiselling	a	Water	Added		GEN		1	
Date		me	Dep			Casing		ter	From	То	Hours	From	То		REM			
Date		ime	Strik		<u>Dept</u>									No gro	oundwater	_		
		is in me	etres	Cont	racto	r / Driller			Meth	od/Plant U	sed Cable Perci	ussive Ria		Logg	ed By	B	-	



Project	orthe	towe													BOREH	IOLE	No
Job No	onns	lowe		ate			Groun	nd Level (m AOD		Dedice also a				BHE	301	3
	1706	26		2	2-08	-05 -05	Group	9.080			Ordinates (0 541099.5	(·					
Supervisi			-		_ 00		_		ient			1 N 2	00000.03		Sheet	_	
JN	MC /	LF/C	W/F	RLC						rEstates	& English P	artnershin	9			of 1	
SAMP	LES	& TES	STS		Γ	1				STR							15
	Туре	Test	PID	Result	Water	Reduced	Depth			0110				_	-	ABC	Inen
Depth	No	Result	Depth	ppmv	5	Level	(Thick- ness)	C.C.			SCRIPTIO				Legend	Geology	Instrument/ Backfill
0.50-1.00						8.58	(0.50)				TOPSOIL				1 . 1 . 1 2 . 1 . 1 . 1	TPS	
0.80	DBJJV					8.28	0.80	CLAY.	Gravel.	is fine to r	l orange gre nedium sub	ey sandy sl prounded to	ightly grave o subangul	elly ar flint	0000	TD	
2.00-2.50	DB	3,0,2 3,3,2 N=10 4,0,2 2,4,3					(1.80)	Medium GRAVE	dense	EPOSITS brown ar vel is fine E DEPOS	nd orange v to medium	ery clayey subangula	slightly san r to subrou	dy nded	000000000000000000000000000000000000000	TD	
	91	2,4,3 N=11				6.48	2.60								000		
3.00-3.50	DBJJV	3,0,4 4,3,4 N≈15					(1.20)	to medi	um sub vith rare	rounded f e fossils fr	ndy slightly Tint and cha rom 3.0m b	ilk. Becomi	ing arey ma	ottled		кімм	
			i			5.28	3,80	Eirm IIal	at analy		MERIDA	- 01 43 0					
4.00-4.50 4.20	D6 D	5,0,4 3,5,3 N=15				-	(1.10)	runng	n grey	ULAT (KI	MMERIDG	E CLAY)				кімм	
5 22 5 52				Í		4.18	4.90	Stiff and	v mottle	d brown			ta an interfe				
5.30	DB	6,0,6 5,4,3 N=18					.(2.10)	(approxi	imately	1mm in le	CLAY with ength). Bec MERIDGE	omina stiff	te crystals with no sel	enite		KIMM	
6.50	D	6,0,5 5,4,5 N=19				2.08	7.00										
7.00	D																
Bori	ng Pi	rogres	san	d Wa		bservat			С	hiselling		Water	Added		GENEF	RAL	
Date	Time	e D	epth	De	Ca pth	sing Dia.mm	Water Dpt	Fn	om	То	Hours	From	То		REMAR		
Date	Time		trike	Min	utes	Standing	Casing							No gro	undwater en	counten	ed.
						Cital Idii Ig											
Ali dimensi Scali	ions ir le 1:62		s C	ontrac	tor / I	Driiler			Method	I/Plant Us	ed Cable Percu			Logge	d By DB		



Project														BC	REHO	DLE	NO
No	orthst	owe									_			1	внв	014	
Job No			Da	te 06	-06	-07	Groun	d Level	(m AOD)	1	nates (OS)					• • •	
121	17062	26			-06			9.24	8	E 540	947.586	N 2666	600.303				
Supervisi	ng Eng	gineer							Client				,	Shee			
JN	AC/L	F/C	W/R	LC					Gallagher E	states & E	nglish Partr	nerships			1 of		_
SAMP	LES	& TES	STS		_					STRAT	Α					2	- Jent
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thick- ness)				RIPTION				egend	Geology	Instrument/ Backfill
0.00-0.50 0.00-0.50	JJV							Grav DEP	el is fine to OSITS).	medium ar	ngular to rol	unded filint	gravelly CL (TERRACE	AY.	0 0 0	TD	x=x x
1.00-1.50	SPJ	2,2,2 12,12,13 N=39				7.05	(2.20)	pock	mbgl, beco ets of light (ming wet o grey clay.	range brow	n ciay wiu	rnequent				
2.00-2.50 2.50-3.00	B	3,4,2 3,3,4 N=12				1.05	2.20	Firm pock fine t (KIM	ets of black o medium MERIDGE	c mottling a subangular CLAY).	nd pockets to rounded	of coarse s chalk and		ed Itis			5 7 2 - 5
3.30 3.80	UB										of weak gr						
4.30	SPT	2,3,4 5,30,11 N=50/ 236 2,3,4			Ţ		(4.80)									кім	
5.30	U	5,30,11 N=50/ 236															
7.00	SET	8,9,15 35 N=50/ 115				2.25	- 7.0 -										
			4														
<u> </u>	loring	Brogr		and M	late	r Obsen	r	1		Chiselling		Water	Added	_	GEN	RAI	
Date	1	ime	Dep	th	Date	Casing	<u> </u>	ater	From	To	Hours	From	То		REM		
Dale			Cop		vept									Slight g 1.8m.	groundwa	ter seej	page at
Date	Т	īme	Stril 4.2		/linut	es Stan	ding Ca	sing									
All din	nension Scale	ns in me 1:62.5	etres	Cont	racto	or / Driller			Meth	od/Plant U	sed Cable Perc	ussive Rig	JJ	Logge	ed By C	w	
								_					and the second second	1 C			



Project	North	stowe													BOREH	IOLE	No
Job No				Date	5.04	3-07	Grour	nd Lev	el (m A	OD) (Co-Ordinates	(OS)		-	BHE	301	5
12	21706	526		Č	5-06	5-07			588		E 541098.		266400.09	3			
Supervis	-	-							Client						Sheet		
	_	LF / C	_	RLC					Gallag	her Esta	tes & English	Partnership	os		1 c	of 1	
SAM	PLES	& TE	STS		5					S	TRATA						nt.
Depth	Type No	Test Result		ppmv		Reduced Level	Depth (Thick- ness)				DESCRIPTIC				Legend	Geology	Instrument
0.00-0.40			0.00	0		8.19	0.40	rare	DIACK IT	ιoπiina. (ravelly sandy Gravel is fine f RRACE DEP	o medium	many rootle angular to	ts and		TD	
-0.90 1.00-1.45	DU				1	7.29	(0.90)	Soft	to firm of ets at 0	orange b .4m. Gra	rown sandy s vel is fine to r POSITS).	lightly grave	elly CLAY wit gular to suba	th rare ngular		TD	
1.50-2.00	J.V.		1.50	0				Orar	ium and	wn clayey	SAND and Cubangular. Sli	GRAVEL. G	Gravel is fine f	to	0	-	
1.50-2.00	B	3,4,4 4,5,5 N=18						angu	Jiar to ro	ounded fr	rom 2.5m. Be EPOSITS).	coming ligh	t yellow grey	with	· · · · · · · · · · · · · · · · · · ·	ł	
3.00-3.50	SPET	4,11,17													0 0		
		N=50/ 190			•		(4.50)								· · · · ·	TD	
4.00-5.00	в														· · · · · ·		
5.00-5.80	8						-								· • · · · ·		
5.80-6.00	в			ł		2.79	5.80								· · · · ·	ľ	:目:
8.00-6.50	SBI	3,4,6 7,7,9 N=29					(1.20)	(KIMI	o very s MERIDO	SE CLAY	CLAY with rar).	e fine sand	l selenite cry:	stals		KIM	
7.00-7.04	U				ł	1.59	7.00										
						· · · · · · · · · · · · · · · · · · ·											
Bori Date	ing Pi Time		s and epth)bservat				Chisell			Added		GENER	AL	
	are		opui	De	pth	bing Dia. mm	Water Dpt	╢	From	То	Hours	From	To	Wet from	REMAR	KS	
Detr													- 14				
Date -06-07	Time		<u>rike</u> .00	Minu	ites	Standing	Casing										
VI dimens Scal	sions in le 1:62		0	ontract	or / D	Driller		11	Meth	od/Plant	Used Cable Perc	uncius Dia		Logged	By CW		_

1



Project															B	OREHO	DLE	NO
No	orthst	owe				1									4	BHB	016	
ob No			Da	te 04	-06	-07	Gro		vei (m AC	DD)		ates (OS)		00.007				
	17062			05	5-06	-07		8.	087	_	E 541	292.879	N 2664	36.287	She	ot.		-
Supervisl	-	-							Cllent			- Kabi David				1 0	f 1	
JN	NC/I	F/C	W/F	RLC					Gallagi	her E	states & El		hersnips					3
SAMP	LES				-					_	STRAT/	۹					26	uer =
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Der (Thick- ness)					RIPTION				Legend	Geology	Backfill
0.00-0.50 0.00-0.35	B 1334A						E (0.80)	l roc	ass over otlets. Gra	dark avel i	brown san is fine to ma	dy slightly g edium suba	gravelly clay angular to s	y TOPSOIL subrounded	with flint.	10.90	TPS	
		1	0.50	0		7.29	<u> </u>	80				R-bib com	welly south	CLAY Gra	vol	<u></u>		
						6.59	- E (0.70	50						CLAY. Gra SITS).			τD	
						0.58	E ''	Cir	m light g	rey to	grey mott	ed orange	slightly sar	ndy CLAY w	<i>ith</i>			
							Ē	rar (T	re fine su ERRACE	ubanı E DEF	gular fiint a POSITS).	nd rare roo	tiets and w	ood remain	5			
2.00-2.20	SPT	1,2,3 4,4,5	2.10	0	1	1	È											
2.00-3.00	SET	N=16 1,2,3 4,4,5			1		E (2.30										TD	
-		4,4,5 N=16					F (2.30	'								E	1	陸線
3.00-3.50 3.00-3.45	B						E											
3.00-3.45	ľ				Į –		Ę											
				1	1	4.2	_	.80	abt arou t		av friable sa	Indv SILT	with coarse	gravel size	clav	×	TD	於逐
3.80-4.00		2,2,2	3.90	0	¥	4.04	<u>+</u> 4		ockets (T	ERR/	ACE DEPC	ISITS).		J		Ê	1	
		2,2,2 3,4,4 N=13	1				ŧ	S	iiff light g	rey C	CLAY (KIMI	MERIDGE	CLAY).				1	
	1	1					ŧ											
5.00-5.03	u		1				F											
5,00-5.05	' I °						ŧ										KIM	
							(2.9	»							•			
5.80	D						Ę										7	
				1			Ę										1	
6.50-7.00) डस्टा	1,3,4					E										-	00
		3,4,5 N=16				1.0	9	7.00										602
							E											(
							ŧ											
							ŧ											
							F											
				1			F										1	
							Ę											
-		1					Ē											
Ē			1				ŧ											1
							ŧ											
							<u> </u>		11		Ohioallin		Mator	Added				
E					Vate	er Obse	vation	is Water			Chiselling			To		GEN REM		
Date		Time	Dep	oth	Dep	Casing th Dia.	mm	Dpt	Fro	m	То	Hours	From	10	Nor	roundwate		
															Stee	l liner failed	i to atta	ich to
							ļ						1		the o	round. Line Sampling	er dua a	out by
															JCB. 2m b	gl.	esume	~ 예면
Date		Time	Str	ke	Minu	tes Sta	nding	Casing										
			4.()5														
																and Dr.		
		ns in m 1:62.5		Cor	tract	or / Drille				Meth	nod/Plant U	sed Cable Perc	cussive Rig		Log	ged By R	LC	



N Job No	lorths	towe		ato			Group	dia		CoOr	dinates (OS	3)		-	BHB	017	7		
	1706	26	D		1-06- 4-06-		Groun		vel (m AOD) 276				6444.289						
Supervis				0.	4-00-	-07		1	Client		41300.33	5 11 200	9444.205	Sh	eet	_			
		LF/C	W/F	RLC					Gallagher E	Estates &	English Pa	rtnerships			1 0	f 1			
SAMF	LES	& TE	STS							STRA	TA						ent		
Depth	Туре No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thick- ness)			DES		Legend	Geology	Instrument/					
	<u> </u>					7.08	/	0.20 Grass over dark brown very sandy day TOPSOIL.								TPS	Ā		
).40	D						(0.80)	Gra	t brown mottl avel is fine su POSITS).			тD	なら						
0.80 0.90 1.00-1.45	11 <u>1</u> 11 0 0		0.90	0		6.28	1.00 (0.60)	Sof	t to firm brow subangular	is		TD							
.50	D			l I		5.68	1.60	N 1	5 mbgl becor	ning very	gravelly.						R		
1.60 1.80-2.00 2.00	B JJV SPT	1,2,2 3,4,5	1.90	0				gra frec	quent large g	Gravel is	gular flint with	h							
		N=14						2.2	POSITS). 0 mbgl becor	ning stiff	grey slightly	sandy day	y with occasio	onal			S		
2.70	D						-	me	dium gravel s	size pocke	ets of siltsto	ne.			<u> </u>		E		
3.00-3.45	u						Ē								<u> </u>				
																	P		
3.60-4.00 3.60	BD JJV		3.60	0													2		
1.00-4.50	SBT	4,3,4 5,5,6										-	R						
		N=20					(5.40)								<u> </u>	TD	R.		
							Ę		0 5 40 1 100	t arou hor	d of all oa	ntaining pla	athened for						
5.00-5.45	υ						F	4.8	0 - 5.10 Lign	t grey bar	IC OF SILL CO	ntaining pla	int/wood fibre	s.	<u>.</u>		S		
							Ę								تع ت		5		
5.60	D						E								<u> </u>				
							-												
							Ę										8		
5.50-7.00	झरा	2,3,4					Ē										R		
		N=20				0.28	7.00							_			R		
																	1		
							-												
							Ē												
							E												
							-												
Bo	oning	Progre	ess a			Observ			С	hiselling]	Water	Added		GENE		-		
Date	Tir	ne	Dept	ז ו	Cepth	asing ⊥Dia.m	m Dr	ier it	From	To	Hours	From	То		REMA				
														Slight a 4.05m	seepage er	counte	ered		
Date	Tir	ne	Strike	M	inutes	Stand	ing Casi	ng											
All dime	ensions	s in met	res	Contra	actor /	Driller			Metho	d/Plant U				Logge	ed By				
	cale 1:										Cable Perc	ussive Rig							



Project	Northstowe													E	BOREHOLE No			
	lorths	towe												_	BHE	2015	2	
Job No			Da		3-09-		Ground	d Level (rdinates (OS				DHL		5	
	1706			23	3-09-	05		6.070		E 5								
Supervis		Igineer LF / C							ent	- Estatos P	Sh	Sheet						
								G	allagnei	Estates &		1 of 1						
SAMF		Τ	DID		Water		STRATA Depth									9V	ment	
Depth	Type No	Test Result	Depth	Result ppmv	Wa		Thick- less)			DES		Legend	Geology	Instrument/ Backfill				
0.40	0 D 5.67 0.40 Gravel								is fine t	orange sa o medium	ndi /		TPS					
0.50-1.00 0.80	D					5.07	(0.60)	Firm da mediun	ark brov n subro	vn sandy s unded fiint	lightly grave and chalk (IN CLAY.	Gravel is fir	ne to S).	<u> </u>	TD		
1.00-1.50	DB	3,0,2 3,3,3 N=11				-	(0.50) 1.50	Eim he	own an	d grey san	dy slightly of	ravelly CL				тD		
- 1.90 2.00-2.50	D DB	3,0,3 2,4,3				Ē	(1.10)	Medium fine to d	n dense coarse : ACE DE	e light brow SAND. Gra EPOSITS).	n and grey avel is fine t	very grave o medium	lly slightly c subrounde	layey d flint	· · · · · · · · · · · · · · · · · · ·	тр		
		N=12				3.47	2.60								· . a .			
2.60 3.00	D U	46 blows						Gravel m										
3.50	ь					ł		(KIMMI	Eridgi	E CLAY).							目	
						Ē									<u>.</u>		旧	
4.00-4.50	DBJJV	5,0,4 2,3,3				Ę									<u> </u>			
		N=12				Ē											目	
5.00	U	70 blows				E	(4.40)									KIMM		
5.00	ľ	O blows				E											旧	
5.50	D					Ē											旧	
						Ē	<i>i</i>										旧	
		1				Ē											目	
6.50-7.00	DB	6,0,5 5,4,5 N=19				-0.93	7.00								<u> </u>			
7.00	D	N-19				-0.93												
						Ē												
						Ē												
						E												
						Ę												
						E												
						Ę												
						Ē												
						F		- <u>n</u>										
	T					Observa				Chiselling	r		Added		GENE			
Date Time Depth Casing Depth Dia.mm						Wate Dpt		rom	To	Hours	From	То	N	REMA				
														INO GIO	undwater e	ricounte	erea.	
Date	Tin	ne	Strike	Mir	nutes	Standin	d Casin											
			20110															
	All dimensions in metres Scale 1:62.5								Method/Plant Used L Cable Percussive Rig						Logged By DB			
3	Scale 1:62.5										Jable Perd	save rug			DB			



Project															BOREHOLE No			
N	Northstowe Ground Level (m AOD) Co-Ordinates (OS)														BHE	010	`	
Job No			Da	te og	9-11	-05	Grour	nd Le	evel (m AOD)	Co-Or	dinates (OS	5)		36	DUD	015	,	
12	1706	26			9-11			6	.350	E 5	41699.54	9 N 266	6200.032					
Supervis	Ing En	gineer							Client		She							
JI	MC/	LF/CV	V/R	LC				-	Gallagher E	Estates &	1 of 1							
SAME	LES	& TES	TS										int					
Depth	Туре No	Tant	PID	Result ppmv	Water	Reduced Level	Depth (Thick- ness)			STRA	5	Legend	Geology	Instrument/ Backfill				
					Ţ	5.75	(0.60)		oft brown sand	y clayey	TOPSOIL.				21.3 <u>1</u> 21. <u>31</u>	TPS		
0.50-1.00 0.60 0.80	B D U	80 blows			Ť	5.25	(0.50)	Fir	m brown sand EPOSITS).	ty slightly	gravelly CL	AY (TERF	ACE			TD		
1.00-1.50	DB	1,2,1 2,1,2 N=6			Ŧ	4.85	:) Sc	oft grey mottled	subround	ed chalk an	y gravelly (d subround	CLAY. Grave led to suban	el is gular		TD		
2.00-2.50	DB	1,2,2 3,5,4 N=14			á.			Fir	nt (TERRACE rm to stiff fissu ecoming stiff fr	red grev	CLAY with	rare shelly DGE CLAY	fragments.					
3.00-3.50	DB	3,4,3 4,5,3 N=15																
4.00-4.50	DB	1,2,1 10,10,8 N=29			,		(5.50)									кімм		
5.00-5.50	DB	4,4,4 4,5,5 N=18												Z				
6.00	D																	
						-0.65	7.00											
7.00	D																	
																	96	
-																		
Boring Progress and Water Observations									1	hiselling	1		Added		GENE	RAL		
Date		me	Depth Casing Water Depth Dia mm Dpt						From	То	Hours	From	То		twater enc sing to 0.5	ountred	at	
Date	Ti		Strike 1.10		inute: 15	s <u>Stand</u> 0.50												
All dime S	All dimensions in metres Scale 1:62.5								Metho	d/Plant U	lsed Cable Perc	ussive Rig	e Rig MO					



Project														E	BOREHOLE No				
N	Northstowe No Date 27, 10, 05 Ground Level (m AOD) Co-Ordinates (OS)														BHB019A				
Job No			Dat		7-10-	-05	Ground	Level	(m AOD) Co-O		BIBUISA							
	1706			27	-10-	05		8.95		E 5									
Supervis									lient		Sh	Sheet							
		_F/CV		LC				G	Gallagher		1 0	of 1							
SAMF	PLES	& TES			5			_		STRA				tent/					
Depth	Type No	Test PID Result Pipepth ppmv		Wat		Depth Thick- less)				SCRIPTION	N			Legend	Geology	Instrument/ Backfill			
						8.35	(0.60) 0.60			y sandy T					<u>2.</u> 2. 2.	TPS			
						7.95	1.00	Firm to stiff yellow brown sandy slightly gravelly CLAY.								то			
						Ē	(1.00)	Grave	l is suba	npact yello ngular to s POSITS)	ÆL.	0	· TD						
						6.95	2.00								a .		目		
	grav								act yellov gular to s ly with ra SITS).	/erv	a	סז							
					-	4.15	4.80	Eim te	a stiff bro	un metile	d grow CLA	V Basami			· · · · · ·				
							5.5m v	with rare	gravel size	e silt pocke	ts (KIMME	ng grey from RIDGE CLA	η Υ).			١Ē			
						(1.40)									кімм				
						2.75	6.20										目		
						2.45	0.00	Weak grey SILTSTONE (KIMMERIDGE CLAY). Stiff dark grey CLAY (KIMMERIDGE CLAY).							***	KIMM			
						1.95	(0.50) 7.00	Stiff da	ark grey			KIMM	目						
				-			7.00										(
Bo		Progress			ter (Cheervel	lions			Chiselling		Matar	Added	[
Date	Boring Progress and Water Observations Date Time Depth Casing Depth Water								From	То	Hours	From	To		GENE REMA				
Date	Tim		Strike		apth	Día. mm			- TOIT	10	Ground	Groundwater not recorded.							
				1.400		Gundiny													
All dimensions in metres Scale 1:62.5									Metho	Method/Plant Used						Logged By			
Sc	cale 1:6	2.5									Cable Perc	ussive Rig		MO					



WSP Environmental One Queens Drive B1 Telephone: Fax

Project														E	BOREHOLE No						
N	orths	towe											_		BHE	2020	•				
Job No			D	ate 3	1-10	-05	Groun	nd Level (n	n AOD)	Co-On	dinates (OS	0			БПС	020	,				
12	1706	26		3	1-10	-05		9.900		E 54	41120.61	7 N 265	5981.674								
Supervisi	ng En	gineer						Clie	ent		Sh	Sheet									
JI	/ NC	LF/C	W/F	RLC				Ga	Gallagher Estates & English Partnerships							1 of 1					
SAMP	LES	& TES	STS	S STRATA												ent/					
Depth	Type No	Test Result	PID Depth	Result ppmv	Water	Reduced Level	Depth (Thick- ness)	-		DES		Legend	Geology	Instrument/ Backfill							
:						Soft brown sandy slightly gravelly CLAY. Gravel is fine to 9.50 0.40 medium and subangular flint (TERRACE DEPOSITS).										TD					
C - 0.40 C 0.50-1.00	D B					9.50	(0.80)	Stiff oral medium	nge bro angula	wn sandy		ellv CLAY	Gravel is fin	e to		TD					
- 1.00-1.40	υ	00 blows				8.70	Ľ` '	DEPOS	ITS).						<u> </u>						
1.50 2.00-2.50	D	2,1,2 1,2,2					Loose orange slightly clayey very gravelly SAND. Gravel Is fine medium angular to subrounded flint. Becoming less gravelly fr 2.0m (TERRACE DEPOSITS).														
	242	N=7			⊥Ţ	7.40	2.50		range n	nedium to	coarse SAN	D (TERR	ACE DEPOS	ITS).	0	_	1日:				
3.00-3.50	880	3,2,1 2,3,2 N=8			Ţ	-	(1.50)			TD											
E	D					5.90	4.00	:	×·×		(:目:										
4.00	В							Firm gre DEPOS	-	× × × × × × × × × × × × × × × × × × ×											
4.60-5.10	80	2,3,3 4,3,3 N=13					(2.00)				× × × × × × × × × × × × × × × × × × ×	TD									
	D	204		1		3.90	6.00			cial the Cl	AV Control	in fina ta r	nedium angu	lar	×. ×.		· 目:				
6.00	, D	3,6,4 5,4,5 N=18					[(1.00)	to round	ted fiint	KIMMER	DGE CLAY	REWORK	ED).			кімм					
6.70	D					2.90	7.00	,									:目:				
								1													
	Boring Progress and Water Observations Chiselling Water A											GENE REMA									
Date			Casing Depth Water Dia.mm Water Dpt Strike Minutes Standing Casing 3.00 15 2.60 3.00						rom	То	Hours	From	Το		REMA dwater stril to 2.6m af	ke at 3.	0m				
All dimensions in metres Scale 1:62.5									Metho	od/Plant U	sed Cable Perc	ussive Rig	i	Logge	ed By DE	3					



Project														E	BOREH	OLE	No	
	orths	towe													BHE	2024		
Job No			I		3-10		Groun		el (m AOD		rdinates (O				BHE	02		
	1706			1:	3-10	-05		9.6	-	E 5	41299.5	65 N 26	6000.000					
Supervis	Ũ	gineer LF/0	NA/ /						Client	F -1-1 0				Sh	eet			
					<u> </u>				Gallagnel		English Pa	artnerships			1 0	1	5	ļ
SAMF	LES	& TE	_		Ē		Donth			STRA	TA					۲.	nent	
Depth	Type No	Test Resut		Result ppmv	Water	Reduced Level	Depth (Thick- ness)				SCRIPTION		Legend	Geology	Instrument/ Backfill			
0.50-1.00	в					9.17	(0.50) 0.50	is fin	ne to media	ît dark brov um subang EPOSITS).	wn sandy si gular to sub	ravel		TD				
0.70	D	3,3,4 5,6,7 N=22					(1.80)	coar chal Beco Beco	se SAND. k. Becomin oming clay oming very	Gravel is ng more gr vey with po y gravelly a	fine to med ravelly from ckets of wh and orange	ium and su 0.8m. Fro hite sand. F brown. Bel	y gravelly fine ubangular fin m 1.2m to 1. rom 1.9m ow 2.0m EPOSITS).	t and	o 	то		
2.00-2.50	800	4,5,7			₽	7 07									· · · ·		(
- 2 20		10,8,9 N=34			۱¥	7.37	-	Ligh	t grey SIL	T (TERRA	CE DEPOS	SITS).			×××	TD		~
2.30	D	Ì				6.97	2.70	-		-	nular	× ×	TD					
3.00-3.50	в	6,6,9 11,7,9 N=36			₽		Dense very sandy GRAVEL. Gravel is fine to coarse subangula to subrounded flint (TERRACE DEPOSITS).											
4.00-4.50	В	4,5,7 6,10,8 N=31					(3.10)									TD .		
5.00-5.50	В	5,5,8 7,6,8 N=29				3.87	5.80								0.00 0.00 0.00 0.00 0.00			
- 5.80 - 6.00	D							Stiff	light grey	SILT (TER	RACE DEF	POSITS).			× × ×			
Ē							(1.20)								× × ×	TD		
6.50-6.90	U	42 blow	\$												×××			
7.00	D					2.67	- 7.00							-	× ×			-
Bo	Boring Progress and Water Observations Chiselling Water Added										Added		GENE	RAI				
Date	Casing						From	То	Hours	From	То		REMA					
Date	Tin	ne	Strik		nutes										water strik to 2.3m aft			
13-10-05			3.10		15	2.30 3.10												
																	C	
All dimensions in metres Contractor / Driller Scale 1:62.5						Method/Plant Used Logged By Cable Percussive Rig DB												