				Boreho	ble Log				Г 1-1-1 З
Proje	ect Nam		N rBWE	D GROUND INVESTIGATION	Project No: /	 A1031-11		Pag	ge 1 of 7
		: BHT1-1-13			110,0001101				
		_	rds (Briti	ish National Grid): 517944.98 -	466769.9 Le	əvel: 10.41			
Hole	; Type: (CP+RC Logged	JBy: D	Dates: 2011-05-26 - 2011-06-20	J				
Clier	nt: Yorks	shire Water Serv	ices Lim	nited Contractor: SOIL MECHA	ANICS Proje	ct Enginee	er:		
Plan	t Used:	SPT Hammer	Serial N	10:					
	!	Samples	<u>з</u>					1	Dept
Well	Water	Depth (m)	Туре	Result	Depth (m)	Level (m)	Legend	Stratum Description	n
	GGG	G G G G G G . C 0.0 - 1.2	G G G G B	G G G G G G G G G G G G G G G G G G G	GGGGGG	GGGG	9694		GGGG
15	1 !		' '				\mathbb{N}	GROUND	
l Ç	1 !	0.35	ES		0.35	10.06		1	
	<u>i</u> 1		!				ľXXI	٨	0.5 -
16	3 <i>'</i>	1 '	1 1		0.55	9.86	KX	Concrete Foreman s description MADE	-1
	3 /	1 1	1 1				\mathbb{K}	GROUND	
] [3 I	0.8	ES				$\mathbb{K}_{\mathbb{X}}$	A	
	3 /	10			1.00	9.41	\mathbb{K}	4	1.0 -
	3 /	1.0	ES				\mathbb{R}		
] [3 I	1 '	1 1				KXJ	Brick and concrete FILL Foreman s description MADE GROUND	
16	3 I	1 1	1 1				KX)	Λ	
3 6	<u>ا</u> ا	1.5 - 1.95	D	N_6 (1 1/1 1 2 2)	1.50	8.91		1	1.5 -
	3 I	1.5 - 1.95 1.5 - 2.0	B	N=6 (1,1/1,1,2,2)		1	\mathbb{R}^{1}		_
3 6	3 I	1 1	1 1			1	$\ \sum_{i=1}^{n} i_i \leq 1$	Dark brown slightly clayey slightly gravelly fine to coarse SAND Gravel is	
3 [3 I	1 1	1 1			1	\mathbb{N}	angular to subrounded fine to coarse of brick chalk sandstone and other various	2
16	3 I	2.0	ES			1	\mathbb{N}	lithologies MADE GROUND	2.0
1	1 I	2.0				1	ľXX	4	
16	! E	1 1	1 1			1	ľXA	1	
3 12	3 1	1	11	1	2.40	8.01	KXI	1	
3 6	4 I	2.4 2 5 - 2 95	ES D U	1	2.70	0.01	<u>x-</u> -;		2.5 -
3 6	3 I	2.5 - 2.95		1		1			
₫ [:	3 I	1 1	1 1			1	~_ <u>~</u> _	Soft to firm brown mottled dark brown slightly gravelly silty CLAY Gravel is	
36	j 1	1 1	1 1			1	×	angular to subrounded fine to coarse of brick chalk sandstone and other various	
3 E	<u>i</u> 1	3.0	D			1	x;	lithologies MADE GROUND	3.0 -
36	<u>י k</u>	0.0				1	<u> </u>		
3 6	1 I	1 1	1 1			1	<u> </u>	4	
91	! E		1 /	1		1	X	4	
3 6	3 1	3.5 - 3.95	D	N=11 (1,1/2,3,3,3)	3.50	6.91	; ;		3.5 -
3 6	3 I	3.5 - 3.95 3.5 - 4.0	B	$\mathbf{N} = 1 (1, 1, 2, 0, 0, 0, 0)$		1		<u>الــــــــــــــــــــــــــــــــــــ</u>	
3 [3 I	1 1	1 1			1		Firm brown slightly gravelly silty CLAY Gravel is angular to subrounded fine to	
3 6	3 1	1 1	1 1			1		coarse of sandstone and chalk GLACIA	L
36	j 1	1 1	1 1			1			4.0
4 E	3 I	1 1	1 1			1		1	
16	4 I		1 !	1		1			
3 6	<u>ا</u> ا	1 '	1 1					d in the second s	
3 1	3 /	4.5 - 4.95	U						4.5
3 6	3 /	4.0 - 4.00						Soft to firm brown slightly sandy CLAY Sand is fine GLACIAL TILL	
3 \$	3 I	1 1	1 1					1	
31	3 /	1 1	1 1					1	
11	<u>ب</u> ا	1 '	1 '	1		· _ '	$\begin{bmatrix} - & - & - \\ - & - & - \end{bmatrix}$	I	

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				Boreho	ble Log			1-1-1 e 2 of 7
-			N rBWD G	ROUND INVESTIGATION	Project No: A	1031-11		
		BHT1-1-13	da (Dritiah	National Grid): 517944.98 -	466760.0.1.4	wol: 10.44		
			,	es: 2011-05-26 - 2011-06-20		evel. 10.41		
				d Contractor: SOIL MECH		ct Engineer:		
		SPT Hammer						
		Samples						Dep
ell	Water	Depth (m)	Туре	Result	Depth (m)	Level (m) Lege	nd Stratum Description	
		5.0 6.0 - 6.45 6.0 - 6.5	D B	N=21 (1,4/4,5,6,6)			 Soft to firm brown slightly sandy CLAY Sand is fine GLACIAL TILL Sand is fine GLACIAL TILL<td>5.5 6.0 6.5</td>	5.5 6.0 6.5
	×	7.5 - 7.95 8.0 9.0 - 9.45 9.0 - 9.5	U D B	N=18 (2,3/3,4,5,6)		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		7.(7.(8.(8.(9.(
Contraction and a second							x x <t< td=""><td>9.5</td></t<>	9.5

				Boreho				Pag	1-1-13 e 3 of 7
		e: BRIDLINGTO BHT1-1-13	N rBWD	GROUND INVESTIGATION	Project No: A	1031-11			
			ds (Britisł	n National Grid): 517944.98 -	466769.9 Le	evel: 10.41			
		-		tes: 2011-05-26 - 2011-06-20					
				ed Contractor: SOIL MECH		ct Engineer:			
Plant	Used:	SPT Hammer	Serial No	:					
		Samples	;		_				Dept
Vell	Water	Depth (m)	Туре	Result	Depth (m)	Level (m)	Legend	Stratum Description	1
		Depth (m) 10.5 - 10.95 11.0 12.0 - 12.45 12.0 - 12.5 13.5 - 13.95	U U D B U	N=21 (3,3/4,5,6,6)				Soft to firm brown slightly sandy CLAY Sand is fine GLACIAL TILL	10.5. 11.0. 11.5. 12.0. 12.5. 13.0. 13.5.
		14.0	D			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			14.0 14.5
	PTAN	r. This is a basic		N=22 (2,3/4,4,7,7)	hy the Nation			Centre (NGDC) and does not necessarily in see see www.bgs.ac.uk/services/ngdc. Gene	

roject	t Name	e: BRIDLINGTO) N rBWD	GROUND INVESTIGATION F	Project No: A	1031-11			
-		BHT1-1-13							
ocatio	on: Bri	dlington Co-o	rds (Briti	sh National Grid): 517944.98 - 4	66769.9 Le	evel: 10.41			
ole T	ype: C	P+RC Logge	d By: D	ates: 2011-05-26 - 2011-06-20					
lient:	Yorks	hire Water Serv	vices Lim	ited Contractor: SOIL MECHAN	NICS Proje	ct Enginee	r:		
lant L	Jsed:	SPT Hammer	Serial N	0:					
		Sample	s						Dep
ell V	Nater	Depth (m)	Туре		Depth (m)	Level (m)	Legend	Stratum Description	
		15.0 - 15.45 15.0 - 15.5	D B	N=22 (2,3/4,4,7,7)			<u> </u>	Soft to firm brown slightly sandy CLAY Sand is fine GLACIAL TILL	
		16.0	D					Dense light creamish white and multicoloured sandy angular to subrounded and tabular fine to coarse GRAVEL of chalk flint and occasional	15.5
777 	V	16.5 - 16.95	U					mudstone and sandstone GLACIAL SAND AND GRAVEL	16.5
		17.0	D		16.95	-6.54			17.(
<u>JolzRolzRolzRolzRolzRolzRolzRolzRolz</u> Rol		18.0 - 18.45 18.0 - 18.5	DB	N=43 (3,6/9,11,13,10)				Structureless CHALK recovered as very stiff light orangish brown gravelly CLAY Gravel is angular to subrounded of weak cream chalk FLAMBOROUGH CHALK GRADE Dm	17.
DVABOVABOVABOVAB		19.5 - 19.95 19.5 - 20.0	D B	58 (5,7/8,13,17,20 for 30mm)	19.50	-9.09			19.0

				Borehole	e Log				BHT1- Page 5	
Proje	ct Nam	e: BRIDLINGTO	N rBWD	GROUND INVESTIGATION P	Project No: A	1031-11			i age o	
		BHT1-1-13								
		-		sh National Grid): 517944.98 - 46	66769.9 Le	vel: 10.41				
				ates: 2011-05-26 - 2011-06-20		t Engines	~.			
		SPT Hammer		ited Contractor: SOIL MECHAN	NICS Proje	ct Enginee	r:			
Flam	Useu.	Ser Hammer Samples		0.						Dep
Nell	Water			Result	Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Туре		,			· · · · · · · · · · · · · · · · · · ·		
UABAU								Structureless CHALK recovered stiff light orangish brown gravelly Gravel is angular to subrounded cream chalk FLAMBOROUGH C GRADE Dm	/ CLAY of weak	
VABO'										20.5
obyto										21.0
avzd.		21.0 - 21.45 21.0 - 21.5	D B	50 (5,11/13,17,20 for 10mm)						21.0
STOVATOVATOVATOVATOVATOVATOV					21.50	-11.09		Structureless CHALK composed uncompact cream and light brow gravelly silt with occasional cobb	/n	21.5
Rolly		21.9	CS					Gravel and cobles are weak to density with some staining and n speckling FLAMBOROUGH CH/ GRADE Dm	medium 10	
VARIAVARAVARAVARAVARAVAR		21.3	00							22.0
0 L	•									22.5
VABOV		22.6	CS							
					22.98	-12.57		Weak to medium density locally weak becoming high density fror	very	23.0
								cream and white CHALK with no or speckling Fractures are vertica 70deg planar and occasionally u rough with grey discolouration or	staining al to Indulating n fracture	
		23.5	CS					surfaces FLAMBOROUGH CHA GRADE B3	LK	23.5
										24.0
										24.5
		24.5	CS							24.0
							┍┍┶╵┲┍┸╵┲┥ ┲┍┸╵┲┍╴┲╸ ┲┍╴┲╴┲╸	Centre (NGDC) and does not neces		

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	Borehole Log Page 6									of 7		
Proie	Project Name: BRIDLINGTON rBWD GROUND INVESTIGATION Project No: A1031-11											
	Borehole ID: BHT1-1-13											
	Location: Bridlington Co-ords (British National Grid): 517944.98 - 466769.9 Level: 10.41											
	Hole Type: CP+RC Logged By: Dates: 2011-05-26 - 2011-06-20											
				ited Contractor: SOIL MECHAN	VICS Proje	ct Enginee	r:					
Plant	Used:	SPT Hammer	Serial N	0:								
		Samples								Depth		
Well	Water	Depth (m)		Result	Depth (m)	Level (m)	Legend	Stratum Description		m		
000		Deptil (III)	Туре									
		25.2	CS					Weak to medium density locally ver weak becoming high density from 2 cream and white CHALK with no st or speckling Fractures are vertical t 70deg planar and occasionally und rough with grey discolouration on fr surfaces FLAMBOROUGH CHALK GRADE B3	y 9 00m aining o ulating acture	-		
								surfaces FLAMBOROUGH CHALK GRADE B3		25.5 _		
										26.0 —		
										-		
										26.5 —		
										-		
		27.0	CS							27.0 —		
		27.5	CS							- 27.5—		
										-		
										28.0 —		
		28.27	CS							- 28.5—		
										- 29.0—		
		29.4	CS							- 29.5 —		
										-		

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Borehole Log

Borehole Log												
Proie	Page 7 of 7 Project Name: BRIDLINGTON rBWD GROUND INVESTIGATION Project No: A1031-11 Project Name: BRIDLINGTON rBWD GROUND INVESTIGATION Project No: A1031-11											
-	Borehole ID: BHT1-1-13											
			ds (Britis	sh National Grid): 517944.98 - 4	66769.9 Le	evel: 10.41						
		-		ates: 2011-05-26 - 2011-06-20								
Clien	t: Yorks	shire Water Serv	ices Lim	ited Contractor: SOIL MECHAN	NICS Proje	ct Enginee	r:					
Plant	Used:	SPT Hammer	Serial N	0:								
		Samples	5							Depth		
Well	Water	Depth (m)	Туре	Result	Depth (m)	Level (m)	Legend	Stratum Description		m		
								Weak to medium density locally v weak becoming high density from cream and white CHALK with no or speckling Fractures are vertica 70deg planar and occasionally un rough with grey discolouration on surfaces FLAMBOROUGH CHAL	il to Indulating	- 30.5 —		
		30.53	CS					GRADE B3		- 31.0 —		
		31.3	CS							- 31.5 —		
										-		
		32.43	CS		00.50					32.0 —		
					32.50	-22.09				32.5 <u> </u>		
										33.0 <u> </u>		
										33.5 — –		
										34.0 <u>–</u>		
										34.5 — –		
IMPC all of 25-06)RTAN ⁻ the info 3-2025	T: This is a basic rmation supplied at 05:55. BGS R	log auto l in the or eference	-generated from AGS data held b riginal AGS file. If you wish to de 20190405103002381366	by the Natior	al Geoscie les to the N	ence Data GDC pleas	Centre (NGDC) and does not neces se see www.bgs.ac.uk/services/ngd	sarily inclu c. Generat	ide ∷ed		

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GENERAL REMARKS

SPT Hammer ID: SM36. SPT Rod type: B