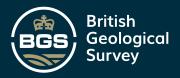


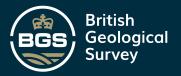
Rust E	nVi	roni	mei	ntai		roject	Amber Pa	1K, 3000				6	Boreho (Sheet	1 of 3)	105R					
Contractor	Hydrac	rat Wate	ır		С	Client Wilson Bowden Homes								Project No. EGMLS283						
levation	142.23	MOD			С	o-ordinates		Logged Checke		GRD C <b>PA</b>										
Run (Flush) %	TCR %	SCR %	RQD %	MAX MIN F	.I. De	escription		٠			·		Depth	Leg	end	Level				
•					O	range clay			-				0.00			142.2				
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:					G	rey occasion	allly vellow-	brown.	MUDSTO	NE			2.10	=	⇉:	140.1				
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<del>-</del>					В	lack MUDSTO	ONE with co	al layer:	<b>.</b>			_/	5.80 5.90 _	$\equiv$		136.4 136.3				
					G	rey MUDSTO	NE						_							
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=	1			1)	B	lack COAL							7.10			135.1				
<u> </u>					.	ack COAL							_	Ξ						
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=					G	rey MUDSTO	NE						3.00	=	===	134.2				
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Orilling Date	<u> </u>					1	· ·			Progress	/Groun	dwate				1				
Depth	ļ!	Method		Bit Ty	pe	Hole Dia.	Core Dia.	Depth	ing Size	Date/	Time	Hole Depth	Casing Depth		Depth Struck	De: Sea				
0.00-12.00		Open Hol		Tricone Bit		120mm		3.00m	140mm	29.08.96		20.00	3.00	20.00	20.00					
12.00-24.50	Rotary	Core		Tungsten Bit		120mm	75mm			29.08.96	3.00pm	24.90	3.00	DRY	•					
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Remarks																				
						atres unless Otherwise														

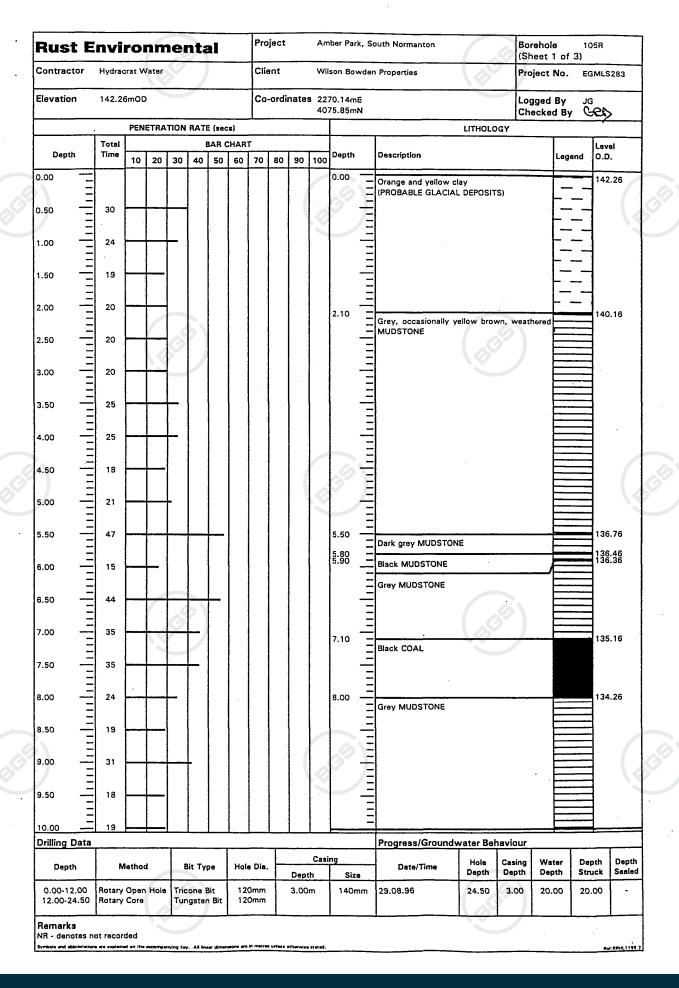


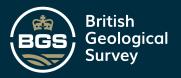
scrat Water	RQD %	MAX MIN CL	F.I.	Co-ordinates 227' 407!  Description  Grey MUDSTONE  Grey MUDSTONE wi  Light yellow SANDS'  Buff, light grey and librown weathered SANDSTONE very moderately weak, w	vith sandstone layers STONE  light yellow-brown zones along we weak to weak, I with carbonaceous Everal vertical and several vertical v		ne to _ at	l By ed By		
SCR %	%	MIN CL	F.1.	Description  Grey MUDSTONE  Grey MUDSTONE wi  Light yellow SANDS:  Buff, light grey and librown weathered SANDSTONE was a series of the series	vith sandstone layers STONE  light yellow-brown zones along we weak to weak, I with carbonaceous Everal vertical and several vertical v	with occasional dark orang eathered joints, silty fir locally weak and weak laminae. Bedding dipping	10.60 11.00 -	ed By	GQA and	Level O.D. 131.66
%	%	MIN CL	F.I.	Grey MUDSTONE  Grey MUDSTONE wi  Light yellow SANDS  Buff, light grey and librown weathered SANDSTONE very moderately weak, w 5° to horizontal. Se	light yellow-brown zones along w weak to weak, I with carbonaceous is several vertical and	with occasional dark orang eathered joints, silty fir locally weak and weak laminae. Bedding dipping	10.60 - 11.00	Legs		0.D. 131.66
95	40	45 2		Grey MUDSTONE wi Light yellow SANDS  Buff, light grey and librown weathered SANDSTONE very moderately weak, w 5° to horizontal. Se	light yellow-brown zones along w weak to weak, I with carbonaceous is several vertical and	with occasional dark orang eathered joints, silty fir locally weak and weak laminae. Bedding dipping	11.00 -			131.26
95	40	45 2		Buff, light grey and librown weathered SANDSTONE very moderately weak, w 5° to horizontal. Se	light yellow-brown zones along w weak to weak, I with carbonaceous is several vertical and	with occasional dark orang eathered joints, silty fir locally weak and weak laminae. Bedding dipping	11.00 -			131.26
95	40	45 2		Buff, light grey and li brown weathered SANDSTONE very moderately weak, w 5° to horizontal. Se	light yellow-brown zones along w weak to weak, I with carbonaceous E several vertical and s	eathered joints, silty fir locally weak and weak laminae. Bedding dipping	12.00 - e- ne to _			
95	40	45 2		brown weathered SANDSTONE very moderately weak, w 5° to horizontal. Se	zones along we weak to weak, i with carbonaceous i Several vertical and s	eathered joints, silty fir locally weak and weak laminae. Bedding dipping	e- ne to - at			130.26
				(5)			-		• •	
46	22	36 <1		very weak friable		nally medium, SANDSTON	15.90		• •	126.60 126.30
				very weak friable - c		nally medium SANDSTON	16.60		• •	125.60
26	0	9 <1		very weak friable Grey with some	dark orange-brow	n staining on joints, sil	17.00 -			125.26
										124.26
25	11	12 <1			GS)		19 50			122.7
				Grey, with occasi MUDSTONE, weak		n staining on joints, si	lty			
	-				1	Progress/Groundwa	ter Behav	iour		1
Open Hole		ricone Bi	it	120mm	3.00m 140r	Dep	oth Depth 00 3.00		Depth Struck 20.00	Seal
	25  Method  Open Hole Core	25 11  Method  Open Hole Core	25 11 12 <1  Method Bit Open Hole Tricone B Tungsten	25 11 12 <1  Method Bit Type  Open Hole Tricone Bit Tungsten Bit	very weak friable.  Grey with some MUDSTONE/argillar  Grey with dark ora highly jointed silty weak  25 11 12 < 1  Grey, with occa. MUDSTONE, weak  Method Bit Type Hole Dia. Cor  Open Hole Tricone Bit Tungsten Bit 120mm 75	very weak friable.  Grey with some dark orange-brow MUDSTONE/argillaceous SILTSTONE, of MUDSTONE/argillaceous SILTSTONE, of MUDSTONE/argillaceous SILTSTONE, of MUDSTONE argillaceous SILTSTONE, of MUDSTONE argillaceous SILTSTONE, of MUDSTONE, or weak  Server weak friable.  Grey with some dark orange-brown and yell highly jointed silty MUDSTONE, very weak  Grey, with occasional yellow-brow MUDSTONE, weak  Method  Bit Type  Hole Dia.  Core Dia.  Casing Depth Siz Open Hole  Tricone Bit  120mm  3.00m  140	Very weak friable  Grey with some dark orange-brown staining on joints, sill MUDSTONE/argillaceous SILTSTONE, very weak to weak  Grey with dark orange-brown and yellow brown staining on joint highly jointed silty MUDSTONE, very weak, locally very weak weak  25 11 12	Dark orange brown silty fine occasionally medium, SANDSTONE, very weak friable  Grey with some dark orange-brown staining on joints, silty MUDSTONE/argillaceous SILTSTONE, very weak to weak  Grey with dark orange-brown and yellow brown staining on joints, highly jointed silty MUDSTONE, very weak, locally very weak to weak  25 11 12  Grey, with occasional yellow-brown staining on joints, silty MUDSTONE, weak  Progress/Groundwater Behav  Method  Bit Type  Hole Dia.  Core Dia.  Core Dia.  Casing Depth Size Date/Time Depth Depth Core Does Depth Doe	Dark orange brown silty fine occasionally medium, SANDSTONE, very weak friable  Grey with some dark orange-brown staining on joints, silty MUDSTONE/argillaceous SILTSTONE, very weak to weak  Grey with dark orange-brown and yellow brown staining on joints, highly jointed silty MUDSTONE, very weak, locally very weak to weak  25 11 12 <1	Dark orange brown sity fine occasionally medium, SANDSTONE, very weak friable  Grey with some dark orange-brown staining on joints, silty  MUDSTONE/argillaceous SILTSTONE, very weak to weak  Grey with dark orange-brown and yellow brown staining on joints, highly jointed silty MUDSTONE, very weak, locally very weak to weak  Grey, with occasional yellow-brown staining on joints, silty  MUDSTONE, weak  Progress/Groundwater Behaviour  Progress/Groundwater Behaviour  Method  Bit Type  Hole Dia.  Core Dia.  Depth Size  Depth Dep

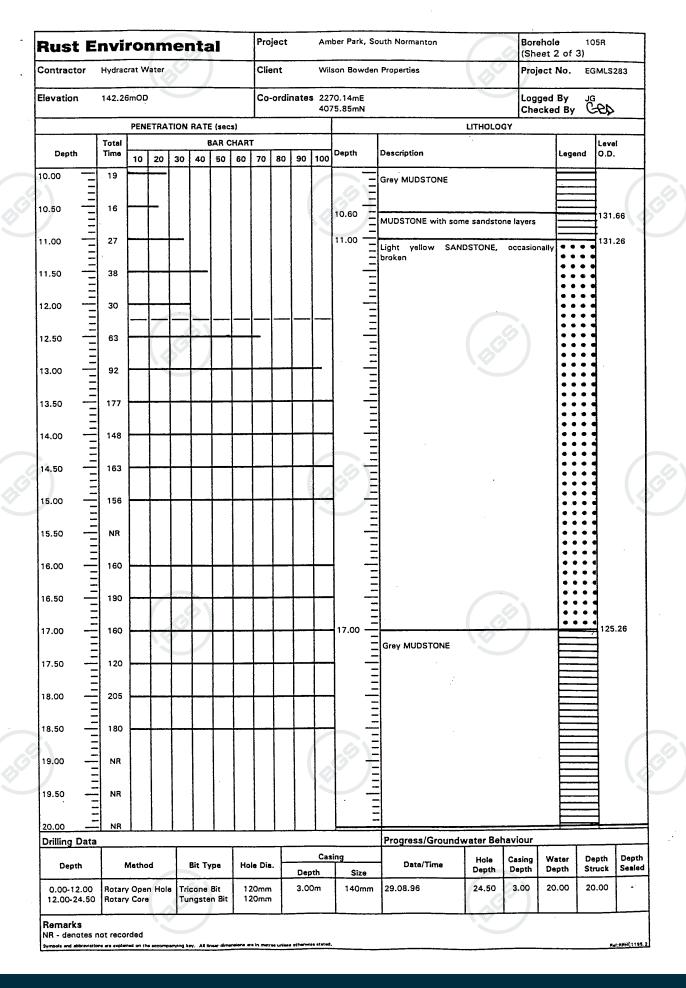


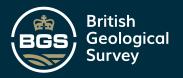
Rust E	nvii	onr	nei	ntal	Pr	oject		Borehole 105R (Sheet 3 of 3)								
ontractor	Hydraci	at Wate	OC		CI	ient		Project No. EGMLS283								
evation	142.26	mOD			C	o-ordinates	2270.14n 4075.85n		Logged By GRD Checked By G-QD							
Run (Flush) %	TCR %	SCR %	RQD %	MAX MIN CL	F.I. De	scription							Depth	Lege		Level O.D.
20.00			<del></del>		М	ey with o	reak						20.50 -			21.70
)	62	41	0	15 1		OAL with little netration of			mudstai	ne fragmen	its. Very	/ rapid	-			
- 22.00	,					ey, with o UDSTONE, v		yellow-t	rown s	taining or	joints	, silty	21.25		<b>-</b>	21.01
22.00		,,=			Gr	ey silty MUI	OSTONE, ve	ery weak	recover	ed as mud	stone gr	- 1	22.10		<b>=</b> 1	20.1
-		(	0		a	clay matrix		·				00	_ 22.90 _			19.3
-	82	61	22	17	Gr	ey thinly to	thickly lami	nated sil	ty MUDS	STONE, ver	y weak		<u>-</u>			
<b></b> 24.50	02			17									_			
24.50					Ba	ise of Boreh	ole						24.50 -		= 1	17.7
<del> </del>  -  -							DG.						-			
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rilling Data			1		·	1		Cas		Progress	/Groun		1	our Water	Depth	Dep
Depth 0.00-12.00	Rotary C	Method Open Hol		Tricone Bi		Hole Dia.	Core Dia.	Depth 3.00m	Size	Date/T 29.08.96	2.00pm	Hole Depth 20.00	Casing Depth 3.00	Depth 20.00	Struck 20.00	
2.00-24.50	Rotary C			Tungsten	Bit	120mm	75mm			29.08.96	3.00pm	24.90	3.00	DRY	-	-
lemarks						_1	·								•	



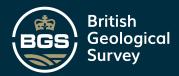








Rust E	Environmental r Hydracrat Water							Project Amber Park, South Normanton Borehole 105R (Sheet 3 of 3)												
ontractor	tor Hydracrat Water							and the second s									EGMLS	283		
Elevation 142.26mOD						ď	Co-01	rdina	ates		70.14mE 75.85mN			Log Che	ged By cked By	G&C 1e				
		PENE	TRA	TION	RATE								1	LITHOLOG	3Y	<del></del>	1			
Depth	Total Time	10	20	30	40 B	50 F		70 8	30	90	100	Depth	Description			Lege	nd O.D			
0.00	NR												Grey MUDSTONE							
0.50	NR										20.50	Black COAL with a mudstone fragme	little clay	and rour	ided rtial	121	.76			
.00	NR											21.25	workings)				121	.01		
E0	NR												Grey MUDSTONE							
.00	NR											-								
.50	NR				51								-							
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Ξ													-							
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Depth		Method	d		Bit Typ	эө	Hole	Dia.		Dept	Cas h	ing Size	Date/Time	Hole Depth	Casing Depth	Water Depth	Depth Struck	Dept Seale		
0.00-12.00 12.00-24.50	Rotan				cone E		120r		1	3.00		140mm	29.08.96	24.50	3.00	20.00	20.00	-		
emarks			14											10						



Rust Environmental

Dotto Sheet

Project

EGMLS283.Z59

Amber Park South Normanton

FIGURE A-1

## TRIAL PIT AND BOREHOLE LOCATION PLAN **BH104R** BH104-BH103R⊕ BH103 **BH107R** BH102R BH102 ⊕BH106R TP101 TP102 BH105R-BH101R ☑ TP103 ⊕BH101 **I** TP104 LEGEND: DENOTES TRIAL PIT POSITION DENOTES LIGHT CABLE PERCUSSION BOREHOLE DENOTES ROTARY OPENHOLE/ROTARY CORED BOREHOLE 0m 100m SCALE

Filename: 283-01.DWG