

Rust Environmental						Project	Amber Park, South Normanton		Borehole		106R (Sheet 1 of 2)												
Contractor						Hydracrat Water		Client		Wilson Bowden Homes		Project No.		EGMLS283									
Elevation						141.03mOD		Co-ordinates		2217.78mE 4085.06mN		Logged By		JG									
												Checked By		GRD									
Run (Flush) %	TCR %	SCR %	RQD %	MAX MIN CL	F.I.	Description						Depth	Legend	Level O.D.									
						Orange clay						0.00		141.03									
						Grey MUDSTONE						2.40		138.63									
						Light yellow-brown SANDSTONE						3.30		137.73									
						Light brown SANDSTONE						4.60		136.43									
						MUDSTONE with sandstone layers						7.80		133.23									
9.00						Dark grey with some orange-brown staining on joints thinly to thickly laminated silty MUDSTONE, very weak						9.00		132.03									
	75	11	0	4 1		Light brown indurated argillaceous SILTSTONE, moderately weak to moderately strong						9.90 9.95	XXXX	131.13 131.08									
Drilling Data										Progress/Groundwater Behaviour													
Depth		Method		Bit Type		Hole Dia.		Core Dia.		Casing		Date/Time		Hole Depth		Casing Depth		Water Depth		Depth Struck		Depth Sealed	
0.00-9.00		Rotary Open Hole		Tricone Bit		120mm		75mm		2.50m 140mm		29.08.96		9.00		2.50		DRY				-	
9.00-17.40		Rotary Core		Tungsten Bit		120mm																	
17.40-20.00		Rotary Open Hole		Tricone Bit		120mm						30.08.96		20.00		2.50		10.40		seepage		-	
Remarks																							
Symbols and abbreviations are explained on the accompanying key. All linear dimensions are in metres unless otherwise stated.																							



Rust Environmental						Project	Amber Park, South Normanton		Borehole		106R (Sheet 2 of 2)				
Contractor						Hydracrat Water		Client		Wilson Bowden Homes		Project No.		EGMLS283	
Elevation						141.03mOD		Co-ordinates		2217.78mE 4085.06mN		Logged By		JG Checked By	
Run (Flush) %	TCR %	SCR %	RQD %	MAX MIN CL	F.I.	Description	Depth	Legend	Level O.D.						
10.50	75	11	0	4 1		Grey with occasional orange-brown staining on joints, silty MUDSTONE, very weak to weak									
						White and black with occasional orange weathered zones on joints, thinly laminated, closely spaced jointed SANDSTONE. Grey silty clay filling open joints	10.50		130.53						
						Black extremely closely fractured COAL	11.00		130.03						
						Black thinly laminated slightly silty, MUDSTONE, weak	11.10		129.93						
							11.20		129.83						
							11.50		129.53						
12.40	77	61	55	39 <1		Grey, occasionally black, slightly carbonaceous MUDSTONE, weak to moderately weak. Occasional clay smeared on surfaces									
						Grey extremely closely fractured MUDSTONE very weak to weak, friable. Broken ground 11.80-12.40m	12.40		128.63						
						Grey MUDSTONE, core lost	12.90		128.13						
						Grey thinly to thickly laminated MUDSTONE, weak to moderately weak, occasional clay smeared on surfaces									
						Grey extremely closely spaced fractured very silty MUDSTONE, very weak, friable									
15.20	82	78	33	43 <1		Grey and brown very thinly bedded argillaceous SILTSTONE, moderately weak	13.95		127.08						
							14.00		127.03						
						Grey very thinly bedded silty MUDSTONE, very weak to weak	14.15		126.88						
							14.45		126.58						
						Black with occasionally brown weathered zones on joints, very thinly bedded COAL, very weak	14.90		126.13						
							15.00		126.03						
17.40						Black thinly laminated slightly silty MUDSTONE, very weak									
						Grey very thinly bedded silty MUDSTONE, weak to moderately weak. Occasional clay on surfaces. Thinly laminated SILTSTONE at 15.20-15.25. Becoming fossiliferous between 15.25-15.55	15.55		125.48						
							15.70		125.33						
							16.00		125.03						
	100	63	4	10 <1		Grey thinly interbedded argillaceous SILTSTONE, moderately weak SANDSTONE, moderately strong to strong and MUDSTONE, weak to very weak									
						Grey thinly bedded very closely spaced to closely spaced fractured argillaceous SILTSTONE. Orange weathered zones on vertical joints									
						Grey thinly interbedded SILTSTONE, moderately strong and MUDSTONE, weak to moderately weak	17.40		123.62						
						Layers of MUDSTONE and SANDSTONE									
						Base of Borehole	20.00		121.03						
Drilling Data										Progress/Groundwater Behaviour					
Depth	Method	Bit Type	Hole Dia.	Core Dia.	Casing		Date/Time	Hole Depth	Casing Depth	Water Depth	Depth Struck	Depth Sealed			
					Depth	Size									
0.00-9.00	Rotary Open Hole	Tricone Bit	120mm				29.08.96	9.00	-	-	-	-			
9.00-17.40	Rotary Core	Tungsten Bit	120mm												
17.40-20.00	Rotary Open Hole	Tricone Bit	120mm	75mm	-	-	30.08.96	20.00	-	10.40	seepage	-			
Remarks															
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Rust Environmental										Project		Borehole			
Contractor										Client		Project No.			
Elevation										Co-ordinates		Logged By			
												Checked By			
PENETRATION RATE (secs)										LITHOLOGY					
BAR CHART															
Depth	Total Time	10	20	30	40	50	60	70	80	90	100	Depth	Description	Legend	Level O.D.
0.00												0.00	Orange and yellow clay		141.03
0.50	15														
1.00	20														
1.50	20														
2.00	18														
2.50	20											2.40	Grey MUDSTONE		138.62
3.00	25											3.30	Light yellow brown SANDSTONE		137.73
3.50	20														
4.00	18											4.60	Light brown SANDSTONE		136.43
4.50	58														
5.00	62														
5.50	90														
6.00	76														
6.50	56														
7.00	57														
7.50	35											7.80	MUDSTONE with sandstone layers		133.23
8.00	20														
8.50	19														
9.00	18											9.00	Grey MUDSTONE		132.03
9.50	NR														
10.00	NR														
Drilling Data										Progress/Groundwater Behaviour					
Depth	Method	Bit Type	Hole Dia.	Casing		Date/Time	Hole Depth	Casing Depth	Water Depth	Depth Struck	Depth Sealed				
				Depth	Size										
0.00-9.00	Rotary Open Hole	Tricone Bit	120mm	1.50m	140mm	29.08.96	10.50	1.50	seepage	10.40	-				
9.00-17.40	Rotary Core	Tungsten Bit	120mm			30.08.96	20.00								
17.40-20.00	Rotary Open Hole	Tricone Bit	120mm												
Remarks															
NR - denotes not recorded															
Symbols and abbreviations are explained on the accompanying key. All linear dimensions are in metres unless otherwise stated.															



Rust Environmental										Project		Borehole			
Contractor Hydracrat Water										Amber Park, South Normanton		106R (Sheet 2 of 2)			
Elevation 141.03mOD										Client Wilson Bowden Properties		Project No. EGMLS283			
Co-ordinates 2217.78mE 4085.06mN										Logged By JG		Checked By			
PENETRATION RATE (secs)										LITHOLOGY					
Depth	Total Time	BAR CHART										Depth	Description	Legend	Level O.D.
		10	20	30	40	50	60	70	80	90	100				
10.00	NR												Grey MUDSTONE		
10.50	NR												10.40 SANDSTONE with black carbonaceous laminae		130.63
11.00	NR												11.00 COAL		130.03
11.50	NR												11.10 Black MUDSTONE		129.93
12.00	NR												11.20 Grey MUDSTONE		129.83
12.50	NR														
13.00	NR														
13.50	NR														
14.00	NR														
14.50	NR												14.45		126.58
15.00	NR												14.90 Black COAL		126.13
15.50	NR												Grey MUDSTONE with sandstone and siltstone layers		
16.00	NR														
16.50	NR														
17.00	NR														
17.50	30														
18.00	32														
18.50	25														
19.00	34														
19.50	25														
20.00	27												20.00 Base of Borehole		121.03
Drilling Data										Progress/Groundwater Behaviour					
Depth	Method	Bit Type	Hole Dia.	Casing		Date/Time	Hole Depth	Casing Depth	Water Depth	Depth Struck	Depth Sealed				
				Depth	Size										
0.00-9.00	Rotary Open Hole	Tricone Bit	120mm			29.08.96	10.50	1.50	seepage	10.40	-				
9.00-17.40	Rotary Core	Tungsten Bit	120mm			30.08.96	20.00								
17.40-20.00	Rotary Open Hole	Tricone Bit	120mm												
Remarks NR - denotes not recorded <small>Symbols and abbreviations are explained on the accompanying key. All linear dimensions are in metres unless otherwise stated.</small>															

Rust Environmental

Project Amber Park
South Normanton

Data Sheet

FIGURE A-1

TRIAL PIT AND BOREHOLE LOCATION PLAN

