




Rust Environmental						Project	Amber Park, South Normanton		Borehole	102R (Sheet 1 of 3)			
Contractor						Hydracrat Water		Client	Wilson Bowden Homes		Project No.	EGMLS283	
Elevation						143.86mOD		Co-ordinates	2073.58mE 4043.57mN		Logged By	JG	
								Checked By	GRB				
Run (Flush) %	TCR %	SCR %	RQD %	MAX MIN CL	F.I.	Description	Depth	Legend	Level O.D.				
4.50						Clay and ash (MADE GROUND)	0.00		143.86				
						Grey MUDSTONE	4.10		139.76				
						Grey thinly laminated closely spaced fractured slightly silty MUDSTONE, very weak	4.50		139.36				
						Grey very thinly bedded MUDSTONE, weak to moderately weak	4.85		139.01				
						Grey, with orange weathered zones along weathered joints, very thinly bedded MUDSTONE, weak to moderately weak	5.10		138.76				
						Grey very thinly bedded calcareous and fossiliferous MUDSTONE weak	5.50 5.60		138.36 138.26				
						Grey and orange thinly laminated SANDSTONE, moderately strong. One subvertical joint with black and orange staining	5.90		137.96				
						Grey, with orange weathered zones along weathered joints, very thinly bedded MUDSTONE, weak to moderately weak with occasional clay on surfaces	6.50 6.60		137.36 137.26				
						Grey very thinly bedded MUDSTONE with medium to coarse siltstone gravel (nodules)	7.50		136.36				
						7.50							Grey, with orange weathered zones along weathered joints, very thinly bedded MUDSTONE, weak to moderately weak with occasional clay on surfaces
Grey very thinly bedded silty MUDSTONE, weak to moderately weak	8.50 8.60 8.75	135.36 135.26 135.11											
Black COAL, very weak with thin carbonaceous laminae													
Grey silty MUDSTONE, very weak, recovered as mudstone gravel in a clay matrix													
Grey MUDSTONE, core lost													
10.00													
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							
0.00-4.50	Rotary Open Hole	Tricone Bit	120mm			4.50m	140mm	28.08.96 3.00pm	7.50	4.50	7.50	7.50	-
4.50-11.50	Rotary Core	Tungsten Bit	120mm	75mm				4.50pm	18.00	4.50	18.00	18.00	-
11.50-25.00	Rotary Open Hole	Tricone Bit	120mm					28.08.96 5.00pm	20.00	4.50	-	-	-
Remarks													
Slotted 50mm standpipe installed to 25.00m depth with pea gravel response zone to 0.50m depth, bentonite seal to ground level and covered by an upright vandal proof cover.													

Ref: RHLS95.1

Rust Environmental						Project		Amber Park, South Normanton		Borehole		102R (Sheet 2 of 3)			
Contractor						Hydracrat Water		Client		Wilson Bowden Homes		Project No.		EGMLS283	
Elevation						143.86mOD		Co-ordinates		2073.58mE 4043.57mN		Logged By		JG	
Checked By						Gey									
Run (Flush) %	TCR %	SCR %	RQD %	MAX MIN CL	F.I.	Description	Depth	Legend	Level O.D.						
10.00						Grey very thinly bedded fossiliferous MUDSTONE very weak	10.00		133.86						
						Grey thickly laminated MUDSTONE, weak to moderately weak with occasional rounded medium siltstone gravel (nodules)	10.25 10.30		133.61 133.56						
	80	48	36	15 <1		Grey very thinly bedded MUDSTONE	10.80		133.06						
						Grey with orange weathered zones along fractures, thinly interlaminated, extremely closely spaced fractured MUDSTONE and SILTSTONE	11.00 11.15		132.86 132.71						
11.50						White and grey with orange weathered zones along fractures extremely closely spaced fractured SILTSTONE recovered as rounded medium siltstone gravel	11.50		132.36						
						Grey very thinly bedded SILTSTONE									
						Grey MUDSTONE									
						COAL	14.00 14.20		129.86 129.66						
						Grey MUDSTONE									
						Yellow SANDSTONE	15.60		128.26						
						Grey MUDSTONE	17.10		126.76						
						Yellow SANDSTONE	19.80		124.06						

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							
0.00-4.50	Rotary Open Hole	Tricone Bit	120mm		4.50m	140mm	28.08.96 3.00pm	7.50	4.50	7.50	7.50	-	
4.50-11.50	Rotary Core	Tungsten Bit	120mm	75mm			4.50pm	18.00	4.50	18.00	18.00	-	
11.50-25.00	Rotary Open Hole	Tricone Bit	120mm				28.08.96 5.00pm	20.00	4.50	-	-	-	

Remarks

[illegible]

Contact BGS: ngdc@bgs.ac.uk



Rust Environmental												Project				Amber Park, South Normanton				Borehole				102R (Sheet 2 of 3)											
Contractor												Hydracrat Water				Client				Wilson Bowden Properties				Project No.				EGMLS283							
Elevation												143.86mOD				Co-ordinates				2073.58mE 4043.57mN				Logged By				JG Checked By				GRB			
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												10.00		Grey MUDSTONE with occasional layers of siltstone																			
10.50		NR												10.50																					
11.00		NR												11.00																					
11.50		NR												11.50		Grey MUDSTONE		132.36																	
12.00		NR												12.00																					
12.50		NR												12.50																					
13.00		23												13.00																					
13.50		18												13.50																					
14.00		20												14.00		COAL		129.86																	
14.50		NR												14.20		Grey MUDSTONE		129.66																	
15.00		30												15.00																					
15.50		22												15.50																					
16.00		29												15.60		Yellow SANDSTONE		128.26																	
16.50		73												16.00																					
17.00		103												16.50																					
17.50		76												17.10		Grey MUDSTONE		126.76																	
18.00		93												17.50																					
18.50		NR												18.00																					
19.00		NR												18.50																					
19.50		NR												19.00																					
20.00		NR												19.50																					
														19.80		Yellow SANDSTONE		124.06																	
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																									
4.50-11.50		Rotary Core		Tungsten Bit		120mm		1.50m		28.08.96 3.00pm		7.50		4.50		-		7.50		-															
11.50-20.00		Rotary Open Hole		Tricone Bit		120mm				28.08.96 4.50pm		18.00		4.50		18.00		18.00		-															
Remarks																																			
Penetration rate not recorded 18.50-25.00 due to water obscuring the drill string.																																			
Symbols and abbreviations are explained on the accompanying key. All linear dimensions are in metres unless otherwise stated.																																			
Ref: BRHL1195.2																																			

Rust Environmental				Project Amber Park, South Normanton						Borehole 102R (Sheet 3 of 3)							
Contractor Hydracrat Water				Client Wilson Bowden Properties						Project No. EGMLS283							
Elevation 143.86mOD				Co-ordinates 2073.58mE 4043.57mN						Logged By JG Checked By GCB							
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						
20.00	NR											20.00	Yellow SANDSTONE	[Pattern]			
20.50	NR											20.50					
21.00	NR											21.00					
21.50	NR											21.50	Dark grey MUDSTONE	[Pattern]	122.26		
22.00	NR											21.80	Grey MUDSTONE	[Pattern]	122.06		
22.50	NR											22.50					
23.00	NR											23.00					
23.50	NR											23.50					
24.00	NR											24.00					
24.50	NR											24.50					
25.00	NR											25.00	Base of Borehole		118.86		
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												
20.00-25.00	Rotary Open Hole	Tricone Bit	120mm	1.50m	140mm	28.08.96	3.00pm	7.50	4.50	-	7.50	-					
						28.08.96	4.50pm	18.00	4.50	18.00	18.00	-					
Remarks																	
Penetration rate not recorded 18.50-25.00 due to water obscuring the drill string.																	

Rust Environmental

Project Amber Park
South Normanton

Data Sheet

FIGURE A-1

TRIAL PIT AND BOREHOLE LOCATION PLAN

