



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		Depth		Legend		Level O.D.			
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			
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: RPHLS95.1

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 102R (Sheet 3 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 GRP	
Run (Flush) %	TCR %	SCR %	RQD %	MAX MIN CL	F.I.	Description	Depth	Legend	Level O.D.
						Yellow SANDSTONE			
						21.60		122.26	
						21.80		122.06	
						Grey MUDSTONE			
							25.00		118.86
						Base of Borehole			

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

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				102R							
Contractor				Hydracrat Water				Client				Wilson Bowden Properties				Project No.				EGMLS283			
Elevation				143.86mOD				Co-ordinates				2073.58mE 4043.57mN				Logged By				JG			
Checked By				Ced																			
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											
0.00												0.00	Black ashy clay (MADE GROUND)		143.86								
0.50		NR																					
1.00		NR																					
1.50		NR																					
2.00		NR																					
2.50		NR																					
3.00		NR																					
3.50		NR																					
4.00		NR										4.10	Grey MUDSTONE		139.76								
4.50		NR																					
5.00		NR																					
5.50		NR																					
6.00		NR																					
6.50		NR																					
7.00		NR																					
7.50		NR																					
8.00		NR																					
8.50		NR										8.50	Black COAL		135.36								
8.60												8.60	Grey MUDSTONE with occasional layers of siltstone		135.26								
9.00		NR																					
9.50		NR																					
10.00		NR																					

Drilling Data

Depth	Method	Bit Type	Hole 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	-
4.50-11.50	Rotary Core	Tungsten Bit	120mm			28.08.96	4.50pm	18.0	4.50	18.00	18.00	

Progress/Groundwater Behaviour

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.



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			
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 with occasional layers of siltstone																
10.50		NR																													
11.00		NR																													
11.50		NR												11.50	Grey MUDSTONE			132.36													
12.00		NR																													
12.50		NR																													
13.00		23																													
13.50		18																													
14.00		20												14.00	COAL			129.86													
14.50		NR												14.20	Grey MUDSTONE			129.66													
15.00		30																													
15.50		22												15.60	Yellow SANDSTONE			128.26													
16.00		29																													
16.50		73																													
17.00		103												17.10	Grey MUDSTONE			126.76													
17.50		76																													
18.00		93																													
18.50		NR																													
19.00		NR																													
19.50		NR																													
20.00		NR												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 140mm		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																															

[illegible]

Rust Environmental

Project Amber Park
South Normanton

Data Sheet

FIGURE A-1

TRIAL PIT AND BOREHOLE LOCATION PLAN

