A F Howland Associates
Geotechnical Engineers

Site	Borehole Number
Sample Site	BH02

Machine : Fraste ML Flush : Water Core Dia : 116 mm Method : Dynamically sampled/ Rotary cored	Casing Diameter 140 mm to 5.60 m	Ground Level (mOD) 77.44	Client Sample Client	Job Number WEBSITE
	Location	Dates 28/01/2010	Engineer	Sheet 1/2

Depth (m)	TCR	SCR	RQD	I_f	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.00-0.25					B1		(0.25)	TOPSOIL (Soft dark brown slightly sandy slightly gravelly clay. Gravel is subangular fine to medium flint and sandstone fragments and rootlets)		
0.25-1.20					B2	77.19	0.25	Soft orange brown sandy slightly gravelly CLAY. Gravel is subangular to rounded fine and rare medium sandstone and flint		
0.60					ES1		(0.95)			
1.20-1.50					U1 PP Av. 83KPa	76.24	1.20	Soft to firm beige sandy gravelly CLAY. Gravel is subangular to subrounded fine to medium sandstone, flint and black carbonized organic materials		
1.60					D1		(1.10)			
1.80					D2					▼1
					Water strike(1) at 2.10m, rose to 1.85m in 20 mins, sealed at 1.85m.					▽1
2.10-2.40					U2 PP Av. 111.5KPa PP Av. 201.5KPa	75.14	2.30	Stiff brown sandy very gravelly CLAY. Gravel is angular to subrounded fine to coarse sandstone and ironstone. Occasional ferruginous staining		
2.50					D3		(0.40)			
2.60					D4	74.74	2.70	Firm grey mottled yellow silty CLAY		
2.80					D5 PP Av. 141.5KPa		(0.50)			
3.00					ES2					
3.10-3.40					U3					
3.20					D6	74.24	3.20	Firm bluish grey CLAY. Possible fine selenite crystals		
							(0.30)			
						73.94	3.50	Weak dark reddish brown IRONSTONE and very weak fine to medium grained SANDSTONE; recovered as silty very sandy subangular fine to coarse gravel sized fragments. Drilling disturbed in places. (Non-intact)	Fe	
4.10-4.55					1,4/6,4,4,4 SPT N=18					
4.10					B3		(2.10)			

Remarks
1. Hand dug inspection pit to 1.20 m.
2. Groundwater struck at 2.10 m and rose to 2.04 m in 5 mins., 1.85 m in 10 mins. and 15 mins. and 20 mins.
3. Dynamically sampled (113 mm) 1.20 m - 5.60 m.
4. Water flush rotary cored (116 mm) 5.60 m - 8.30 m.
5. Slotted Standpipe installed to 7.00 m.

Scale (approx)	Logged By
1:25	AHm

Figure No.
09.108.BH02

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Machine : Fraste ML **Flush :** Water **Core Dia :** 116 mm **Method :** Dynamically sampled/ Rotary cored	**Casing Diameter** 140 mm to 5.60 m **Location**	**Ground Level (mOD)** 77.44 **Dates** 28/01/2010	**Client** Sample Client **Engineer**	**Job Number** WEBSITE **Sheet** 2/2

Depth (m)	TCR	SCR	RQD	I_f	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
5.00 5.10-5.55					D7 1,2/4,4,3,3 SPT N=14 PP Av. 1064KPa		(2.10)	Weak and strong in places dark reddish brown IRONSTONE and very weak fine to medium grained SANDSTONE; recovered as subangular fine to medium gravel sized fragments. Drilling disturbed in places. (Non-intact)		
5.60 5.60-5.96 5.60-6.03					20,5/2,7,14,14 SPT 25*/100 37/255 D11	71.84	5.60	Moderately strong and strong grey ferruginous LIMESTONE. With very closely and closely spaced subhorizontal and subvertical irregular smooth open and clean discontinuity. From 5.60 m to 6.13 m: Non-intact		
6.10 6.13	100	59	36	Av:72 Min: 30 Max: 160	D8		(1.30)	...6.50 m to 6.65 m: 1No. vertical (40º) irregular rough open clean discontinuity		
6.90						70.54	6.90	Weak and moderately weak grey calcareous MUDSTONE with closely and medium spaced subhorizontal irregular tight clean discontinuity		
7.70 7.80	77	33	25	Av:188 Min: 120 Max: 270	D9	69.74	7.70	Firm fissured grey silty CLAY		
8.00 8.00-8.30					U4 28/01/2010:1.38m	69.14	(0.60) 8.30	Complete at 8.30m		

Remarks	Scale (approx)	Logged By
	1:25	AHm
	Figure No.	09.108.BH02