

British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL								Site  M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Boreh Numb RC12		
Machine: Casing Diamete Flush : 140mm cas								Job Number			
				0mm cas	sed to 2.00m 113.65		113.65	Highways Agency	WAL06	WAL060099	
Core Dia: mm Location 445173 E			n		Dates		Engineer		Sheet		
			445173 E 364255 N			08/11/2006		Arup		1/2	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legen	Water	
0.00	PIT		0	0	Groundwater was not apparent during boring(1) at 0.00m.			Inspection Pit.		$\nabla_1$	
	O/H		0	0			(1.20)				
1.20						112.45	1.20	Open Hole.		_	
1.20	60	0	0	0			(0.70)	openioe.			
1.90				91		111.75	1.90	Assumed zone of core loss.			
	0	0	0	0		111.15	2.50	Stiff, orange brown with some light grey mottling CLAY, with occasional fossilised plant remains.	<u> </u>		
0.40.005					5,6/7,10,8,11		(0.90)				
3.40-3.85 3.40					SPT(C) N=36	110.25	3.40	No Recovery.			
2	13	0	0	0			(1.50)				
4.90-5.35					3,6/8,16,18,22 SPT N=64						
4.90					3F1N-04	108.75	4.90	Poor recovery. Recovered as 0.20m of firm and stiff, grey slightly gravelly CLAY. Gravel is subrounded, fine to coarse of mudstone.	, =		
	100	59	0	0			(1.50)			_	
6.40-6.50					25/50 SPT 25*/43		<u>-</u>				
6.40 6.60			0	0	50/61	107.25	6.40	At top; soft grey clay with subangular, fine to coarse			
7.22			0	0	P1		(1.05)	gravel of ironstone and mudstone. Probably due to SPT. Weak, grey MUDS CNIE. Discontinues: Very closely to closely spaced, horizontal to subhorizontal, rough, often wit gravelly clay infill up to 40mm thick.			
7.45	83	29	8	0	25/50	106.20	7.45	Moderately weak, grey SILTSTONE, with extremely closely spaced thin, occasionally thick carbonaceous laminae.	×××××××	×××××××××××××××××××××××××××××××××××××××	
7.90-8.03 7.90			0	0	SPT 25*/75 50/57		(1.01)	Discontinuities: extremely closely to very closely spaced, horizontal, rough and smooth with some orange staining an occasional gravelly clay infill up to 30mm thick. 60 degrees rough, with some orange staining and occasional clay infill	1 ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	× × × × × × × ×	
8.46						105.19	8.46	staining and clay infill  - staining and clay infill  / Moderately strong light grey SILTSTONE, with occasional thin and thick wispy laminae of carbonaceous siltstone.			
9.20 9.40-9.51 9.40	97	51	25	0	25/50 P2 SPT 25*/51 50/58			Discontinuities: extremely closely to medium spaced, horizontal and subhorizontal, rough with orange discolouration penetrating up to 20mm into rock, but generally around 5mm. Vertical and subvertical, undulating, rough with common brown and orange staining and occasional clay infill up to 2mm thick. Fracture runs throughout length of stratum.	X X X X X X X X X X X X X X X X X X X	******	
Remarks							-	Scale (appro)	bogg	×	
								( 6)			
								1:50	No.	-	



British Geological Survey Natural Environment research council								Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Numi	Borehole Number RC1216	
lachine:			Casing	Casing Diameter 140mm cased to 2.00m			<b>Level (mOD)</b> 13.65			Job Number WAL06009	
Core Dia: mm Method:			<b>Location</b> 445173 E 364255 N			Dates 08/11/2006		<b>Engineer</b> Arup		Sheet 2/2	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legen	₽ Water	
0.40	93	55	47	0	P3	(e		At 10.90: recovered non-intact. Probably due to SPT.	X X X X X X X X X X X X X X X X X X X	× × × × × × × × × × × × × × × × × × ×	
0.90 0.90-11.00 2.00-12.20	100	81	17	0	25/50 SPT 25*/37 50/62		(4.36)	From 11.85m; carbonaceous laminae are extremely closely spaced.	X X X X X X X X X X X X X X X X X X X	× × × × × × × × × × × × × × × × × × ×	
2.40 2.40-12.50 2.82			0	0	25/50 SPT 25*/44 50/59	100.83	12.82	Medaratek wask gray MIDSTONE associasally grading to	****** ****** ***** ***** ***** *****	×	
3.75	81	45	25	0	P5			siltstone. Occasionally weathered to clayey gravel along discontinuities. Discontinuities: extremely closely to mediu spaced, generally close, horizontal, rough, clean. Occasional clayey gravel infill up to 40mm thick. Vertical to 70 degrees, undulating, rough and smooth, occasional clay infill up to 2mm thick.	n		
i.90	Sample / Tests		Casing Water Depth Depth (m) (m)			(2.58)	(2.58)				
3.90-13.99 3.05-14.36 3.95	SPT 25*/41 50/49 U6 P7		2.00 25/50		Manual		From 14.52m to 14.56m; ironstone.				
					08/11/2006: 08/11/2006: 08/11/2006:	98.25	15.40	Complete at 15.40m			
			0	5)							
						( <					
emarks							    	Scale (approx	k) By	jed	
								1:50 Figure	OP No.		