

	British Geological Surve	BY				Site M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Borehole Number RC1257	
Boring Me		Casing Diamete	er sed to 15.00m	Ground Level (n 125.20	nOD)	Client Highways Agency	Job Number WAL06009	9
		Location 444700 E	357999 N	Dates 08/11/2006		<b>Engineer</b> Arup	Sheet 1/3	
Depth (m)	Sample / Tests	Casing Water Depth (m) (m)	Field Records	Level Dep (mOD) (m) (Thickf	th ) ness)	Description	Legend 5	
35)			Groundwater was not apparent during boring(1) at 0.00m.	Langelandandandandandandandandandandandandanda		Rotary follow on from CP1257. For likely material description see cable percussion borehole CP1257.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
		(85 S)						
50)				and			(8)	5
		(86°)						
36)	87 35	9 0			6.00)		(8)	
Remarks Rotary follo	ow on from CP1257.;N	lo visual or olfacto	 ry indication of contan	nination was observ	/ed.;	Scale (approx	Logged By	-
						1:50 Figure	TL No.	



( <b>!!!!</b> ) G	140mm cased to 15.00m						Site  M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Borehole Number RC1257
<b>Boring Meth</b> Cable Percus						Ground Level (mOD	Client Highways Agency	Job Number
Jubie i ercus	SION				ed to 10.00m		Engineer	WAL06009 Sheet
						08/11/2006	Arup	2/3
Depth (m)	Sample	/ Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level Depth (m) (Thickness	Description	Legend A
				56)			(BGS)	
6.00	TCR	SCR	RQD	FI		109.20 16.00	Generally weak to moderately weak (variably very weak)	
6.60	97	49	14	0	P1		Generally weak to moderately weak (variably very weak) thinly laminated dark grey MUDSTONE with occasional carbonised plant remains and rare subrounded coarse gravel size ironstone nodules. Fractures: where evident horizontal, very closely to closely spaced, smooth, planar, open, occasionally with soft slightly gravelly clay infill (up to 12mm), subvertical (70 degrees), smooth, planar.  Between 16.10m and 16.60m; generally non-intact.	
7.50-17.68 7.50					/30,41,29 SPT 0*/0 100/177			
8.10-18.31	67	13	0	0	U2 /26,39,35 SPT 0'/0	(5.10)	Between 18.50m and 20.50m; structure frequently lost, generally very weak to weak.	
9.00-19.19 9.00	93	24	7	0	100/186			
Remarks	93		1	Ü		=	0.010	Lammad
							Scale (approx	Logged By
							1:50	TL



	British Geologica ATURAL ENVIRO		-					Site  M1 WIDENING JUNCTION 21 TO 30 PRELIMINARY GI- CONTRACT 2	Borehol Number RC125
Machine: Casing Diameter Flush : 140mm cased to					Ground Level (mOD) d to 15.00m 125.20				Job Number
Core Dia: mm  Location  Method:  44			on 14700 E 357999 N		Dates 08/11/2006		Engineer Arup	Sheet 3/3	
Depth (m)	TCR	SCR	RQD	FI	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend
0.50-20.51 0.50 0.60					/50 SPT 0*/0 50/6 P3	(s	(5.10)	Between 20.50m and 20.60m; thin bed of strong siltstone.	
1.30	95	40	28	0	/37,55,8	104.10 103.90	⊢ (0.20)	Recovered non-intact as weak brittle black COAL.  Very weak becoming moderately weak to weak light grey MUDSTONE with frequent carbonised plant remains.  Fractures: where evident very closely spaced, random, irregular.	
2.00-22.15 2.00 2.10	77	60	49	0	SPT 0 <sup>1</sup> /0 100/153	103.10	22.10	Moderately weak to moderately strong grey SILTSTONE with occasional subrounded fine and medium gravel size ironstone nodules and occasional carbonised plant remains. Fractures: subhorizontal, closely spaced, planar to irregular; subvertical, apparently widely spaced, undulating to irregular.	X X X X X X X X X X X X X X X X X X X
3.50-23.59 3.50					/57,43 SPT 0*/0 100/92				X X X X X X X X X X X X X X X X X X X
5.00-25.00	100	77	52	o	/50 SPT 0*/0		(3.90)		X X X X X X X X X X X X X X X X X X X
.00			0	o	50/4				X X X X X X X X X X X X X X X X X X X
.00 .50-26.75 .50-26.51 .50	100	87	79	0	U5 /50 SPT 0*/0 50/7	groy thinly laminated MILIDSTONE, thinly interhedded	Generally moderately strong (variably moderately weak) dark grey thinly laminated MUDSTONE, thinly interbedded with moderately strong to strong light and dark grey thinly colour laminated slitstone. Fractures: horizontal (0 degrees to 15 degrees), closely and medium spaced, smooth, planar, occasionally with grey silt infill (up to 2mm); subvertical (75 degrees), smooth, planar to irregular.		
	100	62	33	0				occasionally with grey silt infill (up to 2mm); subvertical (75 degrees), smooth, planar to irregular.	
3.00-28.00 3.00 3.00-28.30	100			J	/50 SPT 0*/0 50/2 U6		(3.50)		
					08/11/2006:	K		Between 29.00m and 29.50m; 1 no vertical fracture.	
					08/11/2006:	95.70	29.50	Complete at 29.50m	
Remarks			B	35)				Scale (approx) 1:50 Figure	TL