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Main Roads

ENGINEERING BOREHOLE

FOR GEOTECHNICAL TERMS AND
SYMBOLS REFER FORM F:GEOT 017/3-2005

BOREHOLE No BH9

SHEET 1 of 2

REFERENCE No H9656

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Near Pier 1, Approximate Chainage 601m, about 11m right of control MCB1-C. COORDINATES 29919.9 E; 147417.0 N

PROJECT No FG5404 SURFACE R.L. 19.60 DATE STARTED 27/07/05 DATUM Ipswich Motorway

JOB No 148/17A/57 DATUM AHD DATE COMPLETED 27/07/05 DRILLER Drillsure

DEPTH (m)	R.L. (m)	ALGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH						DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
								EH	VH	IM	JL	VL	EL				
0	19.60													20 60 200 600 2000			
1						CLAYEY SAND and GRAVEL (Fill) Pale brown, fine to medium grained, dense to very dense.											10/25mm HB N>50
2	17.60					CLAYEY SAND (Alluvium) Pale brown to pale grey, minor yellow brown iron staining, fine to medium grained. Medium dense.											
3							SC									Low proportion of fines	7,12,7 N=19
4	15.60					SANDSTONE Pale grey, minor yellow-brown iron staining, fine - medium grained, moist, dense - very dense. Relict fabric visible in parts. Exhibits engineering properties of Clayey Sand.											
5							XW										
6																	
7	13.10					Pale yellow brown, fine grained, relict structure visible, moist. Exhibits engineering properties of very dense Clayey Sand.											
8							XW-HW										
9	11.00						SW-MW										
10						Pale grey, minor yellow brown iron staining, fine grained, thin carbonaceous laminations throughout.	SW										

REMARKS No groundwater reported during drilling. See Additional Descriptive Coding sheet for abbreviations.

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ENGINEERING BOREHOLE

FOR GEOTECHNICAL TERMS AND
SYMBOLS REFER FORM F:GEOT 017/3-2005

BOREHOLE No BH9

SHEET 2 of 2

REFERENCE No H9656

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Near Pier 1, Approximate Chainage 601m, about 11m right of control MCB1-C. COORDINATES 29919.9 E; 147417.0 N

PROJECT No FG5404 SURFACE R.L. 19.60 DATE STARTED 27/07/05 DATUM Ipswich Motorway

JOB No 148/17A/57 DATUM AHD DATE COMPLETED 27/07/05 DRILLER Drillsure

DEPTH (m)	R.L. (m)	ALGER CASING WASH BORING CORE DRILLING	RQD () %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH					DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
								EH	VH	HL	ML	VL				
10	9.60												20 60 200 600 2000			
11			87 (84)			Sandstone Cont'd. As above but with occasional XW-HW bands. Defects mostly dip 5°-10°, 70°, occasional 20°. Defect surfaces are mostly PL, SM-SR, CN or with a thin clay infill. Contains some minor interbeds of siltstone and carbonaceous mudstone below 11.9m.	SW								Jt, 70°, PL, SM, C, XW infill 5mm HW-XW band 30mm thick. Jts, 5°, PL- R, C, CN Jt, 20°, PL, SR, HW zone 20 mm thick. XW - HW band Bedding ~5° Bedding plane partings ~5°-10°, Un, SM, CN, C.	x o x x x o x o
13	5.93		100 100 (82) (100) 100												Is(50)=0.14 MPa Is(50)=0.63 MPa Is(50)=1.77 MPa Is(50)=0.78 MPa Is(50)=0.81 MPa Is(50)=0.58 MPa Is(50)=0.76 MPa Is(50)=0.40 MPa Is(50)=0.97 MPa Bedding 5°-10° Is(50)=0.32 MPa	x o x o x o x o x o
14						Borehole terminated at 13.67m									Is(50)=1.18 MPa	o
15																
16																
17																
18																
19																
20																

REMARKS No groundwater reported during drilling. See Additional Descriptive Coding sheet for abbreviations.

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Project: **Ipswich Motorway / Logan Motorway Interchange**
Borehole No: **BH9**
Start Depth: 8.60m
Finish Depth: 13.67m
Project No: FG5404
H No: 9656

