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Main Roads

ENGINEERING BOREHOLE

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

BOREHOLE No BH35

SHEET 1 of 2

REFERENCE No H9730

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Bertha St O'pass, Abutment A, Approximate Chainage 12860m, 6m left of control MC20 COORDINATES 28605.8 E; 146934.2 N

PROJECT No FG5404 SURFACE R.L. 10.90 DATE STARTED 14/08/05 DATUM Ipswich Motorway

JOB No 148/17A/57 DATUM AHD DATE COMPLETED 14/08/05 DRILLER Drillsure

DEPTH (m)	R.L. (m)	ALUGER 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
0	10.90					ASPHALT and ROAD BASE						
10.50						CLAYEY SILT and GRAVEL (Fill) Brown orange, iron stained, moist. Contains gravel up to 15mm size. Medium dense.					7,11,7 N=18	SPT
9.10						CLAYEY SAND (Fill) Grey, mottled with red iron stains, fine - medium grained, moist. Loose. Varies to Sandy Clay in parts.					2,2,2 N=4	SPT
7.00						SILTY CLAY (Alluvium) Dark grey - black, organic, moist, stiff.	CI-CH				3,4,7 N=11	SPT
5.90						SILTY CLAY (Alluvium) Grey - yellow, intermediate plasticity, moist, firm. Trace fine sand. Minor thin, fine sand bands between 5.5 and 6m.	CI				2,2,3 N=5	SPT
2.36						SANDSTONE No Sample. Based on drillers logs only.	XW-HW				6/40mm HB N>50	SPT
0.90												

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 BH35

SHEET 2 of 2

REFERENCE No H9730

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Bertha St O'pass, Abutment A, Approximate Chainage 12860m, 6m left of control MC20 COORDINATES 28605.8 E; 146934.2 N

PROJECT No FG5404 SURFACE R.L. 10.90 DATE STARTED 14/08/05 DATUM Ipswich Motorway

JOB No 148/17A/57 DATUM AHD DATE COMPLETED 14/08/05 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	I	M	J				
10	0.90															
					(84)	Sandstone Cont'd. Pale grey, minor yellow-brown iron staining throughout. Generally fine-medium grained, medium-coarse grained in parts.									Is(50)=0.33 MPa Is(50)=0.48 MPa	x o
	0.10					MUDSTONE Dark grey, thinly laminated, low strength, bedding ~10°.									Is(50)=0.66 MPa Is(50)=0.40 MPa Is(50)=0.24 MPa Is(50)=0.22 MPa	x o x o
	-0.38					SANDSTONE As before. Bedding ~10°. Numerous thin carbonaceous laminations parallel to bedding. Slightly silicified in parts. Occasional interbands of carbonaceous mudstone up to 0.2m thick. Defects mostly dip 10°, 20°, 70°. Defect surfaces are mostly PL, SR, C or O, CN or occasionally with a thin XW or clayey film. Brown iron stains on 70° defects.									Is(50)=1.86 MPa Is(50)=2.18 MPa	x o
					100 (88)										Is(50)=0.63 MPa Is(50)=1.62 MPa	x o
															Is(50)=1.45 MPa Is(50)=1.27 MPa	x o
	-4.90				100											
16						Borehole terminated at 15.8m										
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: **BH35**
 Start Depth: 10.00m
 Finish Depth: 15.80m
 Project No: FG5404
 H No: 9730

