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**Queensland
Government**

Department of
Main Roads

ENGINEERING BOREHOLE

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

BOREHOLE No **BH1**

SHEET **1** of **2**

REFERENCE No **H9628**

PROJECT **IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION**

LOCATION **Near Abutment A. Approximate Chainage 36.5m, about 11m right of control MCK1-C.** COORDINATES **29753.3 E; 147223.8 N**

PROJECT No **FG5404** SURFACE R.L. **31.10** DATE STARTED **12/07/05** DATUM **Ipswich Motorway**

JOB No **148/17A/57** DATUM **AHD** DATE COMPLETED **12/07/05** DRILLER **Drillsure**

DEPTH (m)	R.L. (m)	AUGER 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	31.10											
	30.95					ASPHALT SILTY GRAVEL (Fill) Grey.					Based on drillers logs only.	
1	30.10					CLAYEY SANDSTONE Pale grey with orange iron staining, fine - coarse grained, moist. Contains thin interbands of siltstone. Slightly cemented in parts. Trace gravel up to 10mm size in parts.	XW-HW				15/100mm HB N>50	SPT
	28.60					SILTSTONE Pale grey, minor orange-red iron staining. Relict sub-horizontal structure visible. Bedding 5-10°. Occasional defects parallel to bedding, 30°, or 45°. Defect surfaces are mostly PL, SM, T and occasionally with a thin clay coat 2mm thick.	HW				30/110mm N>50	SPT
3	27.50			(58)		SANDSTONE Pale grey, minor orange - brown iron staining, fine - medium grained, massive. Occasional defects 45° or subvertical. Defect surfaces mostly PL, SR-UN, C with thin grey clayey coat.	MW				Jt, 30°, PL, SM, T Is(50)=0.05 MPa Is(50)=0.04 MPa	x o
4	26.85					Interbanded SILTSTONE, Fine Grained SANDSTONE and SHALE Pale grey, minor orange-brown iron staining in parts. Bedding ~5°, occasionally 20°. Occasional defects 45°, PL, R, T with clayey infill. Occasional XW Shale bands which resemble St - VSt Clay in between hard iron cemented Sandstone bands.	MW-HW				Jt, 20°, PL, ST, C, CN Jt, 80°, PL, SM, C, thin clayey coat. Jt, 45°, PL, SM, C, thin clayey coat XW Sandstone band. WD=2.12 t/m ³ MC=11.3% Is(50)=0.09 MPa Is(50)=0.09 MPa	CU TRI o x
6	24.60			85 (93)		SANDSTONE Pale pink - grey, minor orange-brown iron staining. Fine grained becoming medium-coarse grained with depth. Contains thin carbonaceous interlaminae throughout. Bedding ~5°. Defects mostly dip 30°, 60°, 70°. Defect surfaces are mostly planar, clean, closed or tight and either smooth or undulating. Occasionally some surfaces have a weathered clayey coat up to 2mm thick.	MW				Jts, 30°, 60°, 70°, 85°, PL, R, C-T. 5mm clayey infill on 30° Jt. Jt, 70°, PL, C, XW infill 5mm thick. Jt, 70°, PL, T WD=2.20 t/m ³ MC=10.2% Is(50)=0.16 MPa Is(50)=0.10 MPa	CU TRI o x o
9	22.70			100 (100)		Pale grey - grey, trace iron stains. Occasional interbands of dark grey Shale or Mudstone with Sandstone interlaminae. Bedding and Defects - As above.	SW				Is(50)=0.08 MPa Is(50)=0.34 MPa	x o

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

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ENGINEERING BOREHOLE

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BOREHOLE No BH1
SHEET 2 of 2
REFERENCE No H9628

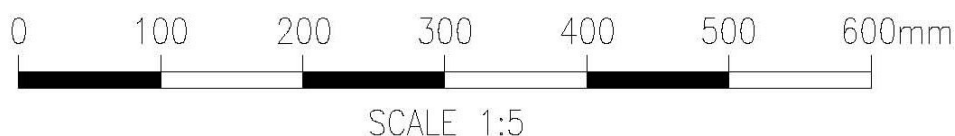
PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION
LOCATION Near Abutment A. Approximate Chainage 36.5m, about 11m right of control MCK1-C. COORDINATES 29753.3 E; 147223.8 N
PROJECT No FG5404 SURFACE R.L. 31.10 DATE STARTED 12/07/05 DATUM Ipswich Motorway
JOB No 148/17A/57 DATUM AHD DATE COMPLETED 12/07/05 DRILLER Drillsure

DEPTH (m)	R.L. (m)	AUGER 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	H	M	J	L	VL	EL	20		60	200			600	2000	
10	21.10					Sandstone Cont'd.													Is(50)=0.23 MPa Is(50)=0.28 MPa	x o					
				100 (100)		As before.																			
11						Shale interband between 11.65 and 11.9m, fissile in parts.													Is(50)=0.29 MPa Is(50)=0.54 MPa	x o					
																			Jt,60°,PL,SM,C,CN Jt, 30°, PL,SM,C, 1mm green CL infill. Jt,30°,PL,SM,C, minor Fest, waxy feel, slickensided. Jt,70°,PL,SR,T						
12																			Is(50)=0.70 MPa Is(50)=0.48 MPa	o x					
				100 (100)															BP, 5°,PL,SM, up to 10mm grey clay infill.						
13						Localised bedding variation to 20°.		SW											Is(50)=0.44 MPa Is(50)=0.35 MPa	x o					
																			Jt,70°,PL,T Jt,70°,PL,T Mudstone interband.	Is(50)=0.61 MPa Is(50)=0.46 MPa	x o				
15																			Calcite vein, 80°, 1mm thick.						
																			Is(50)=2.57 MPa Is(50)=4.45 MPa	x o					
16	14.80			100															Mudstone interband.	Is(50)=0.78 MPa Is(50)=1.04 MPa	x o				
						Borehole terminated at 16.3m													Mudstone interband.						
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: **BH1**
 Start Depth: **2.70m**
 Finish Depth: **16.30m**
 Project No: **FG5404**
 H No: **9628**



Project: **Ipswich Motorway / Logan Motorway Interchange**
Borehole No: **BH1**
Start Depth: **2.70m**
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