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**ENGINEERING
BOREHOLE**

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

BOREHOLE No BH34

SHEET 1 of 2

REFERENCE No H9729

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Bertha St O'pass, Abutment A, Approximate Chainage 12860m, 24m right of control MC20. COORDINATES 28602.8 E; 146963.6 N

PROJECT No FG5404 SURFACE R.L. 10.30 DATE STARTED 22/08/05 DATUM Ipswich Motorway

JOB No 148/17A/57 DATUM AHD DATE COMPLETED 22/08/05 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	HM	JL	VL				
0	10.30					ASPHALT and ROAD BASE										
0.90						SAND / CLAYEY SAND (Fill) White and brown, trace iron stains, medium - coarse grained, moist. Few sandstone fragments. Medium dense.									5,6,5 N=11	SPT
1.80						SANDY CLAY (Fill) Pale grey and yellow, mottled with red iron stains, fine grained, moist, soft.									1,1,2 N=3	SPT
2.70						SILTY CLAY (Alluvium) Dark brown, trace iron stains, minor organics throughout, moist. Stiff.	CI-CH							Old soil profile.	3,4,5 N=9	SPT
3.60						SILTY CLAY (Alluvium) Pale brown-grey, trace iron stains and organics, intermediate plasticity, moist. Firm - stiff.	CI								3,3,5 N=8	SPT
4.50						Stiff.									2,4,5 N=9	SPT
5.40						SANDSTONE No sample recovered. Based on drillers logs only.	XW-HW								30/90mm HB N>50	SPT
6.30			(43)	100 (96)		Pale grey - white, minor yellow brown iron staining throughout. Medium - coarse grained quartz in a slightly silicified and slightly porous matrix.								Jt, 70°, PL, SR, T. XW seam, 0°, 15mm thick. Jt, 80°, PL, SR, O, 10mm XW infill Jt, 0°, 10mm brown CL infill.	Is(50)=0.88 MPa Is(50)=0.31 MPa	x o
7.20						Generally massive, faint bedding in parts ~10°. Localised bedding variations to 20°. Defects mostly dip 10°, 20°, 45°, occasionally 70°. Defect surfaces are mostly PL, SR-R, C or O, CN or with a thin clayey film.	SW							Jt, 10°, PL, SR, 5mm grey XW infill.	Is(50)=1.49 MPa Is(50)=0.90 MPa	x o
8.10															Is(50)=0.94 MPa Is(50)=1.12 MPa	x o

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

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JML



**Queensland
Government**

Department of
Main Roads

ENGINEERING BOREHOLE

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

BOREHOLE No BH34

SHEET 2 of 2

REFERENCE No H9729

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Bertha St O'pass, Abutment A, Approximate Chainage 12860m, 24m right of control MC20. COORDINATES 28602.8 E; 146963.6 N

PROJECT No FG5404 SURFACE R.L. 10.30 DATE STARTED 22/08/05 DATUM Ipswich Motorway

JOB No 148/17A/57 DATUM AHD DATE COMPLETED 22/08/05 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	EH	EH	EH	EH	EH				
10	0.30					Sandstone Cont'd. As before.											
11																	
12							SW								3 Jts, 45°, PL, SR-R, O. Thin brown Fest CLy coat or film.	Is(50)=1.24 MPa Is(50)=1.43 MPa	x o
	-2.52			100											Pebbly sandstone band.	Is(50)=0.34 MPa Is(50)=0.63 MPa	x o
13						Borehole terminated at 12.82m											
14																	
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: **BH34**
 Start Depth: 7.00m
 Finish Depth: 12.82m
 Project No: FG5404
 H No: 9729

