Queensland Government
Department of Main Roads

ENGINEERING BOREHOLE

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

BOREHOLE No BH12
SHEET 1 of 2
REFERENCE No H9753

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION
LOCATION Pier 4, Chainage 736, 0.5m left of control MCB1-C. COORDINATES 30051.3 E; 147436.9 N
PROJECT No FG5404 SURFACE R.L. 20.90 DATE STARTED 09/10/05 DATUM Ipswich Motorway
JOB No 148/17A/57 DATUM AHD DATE COMPLETED 09/10/05 DRILLER Drillsure

DEPTH (m)	R.L. (m)	AUGER / CASING / WASH BORING / CORE DRILLING	RQD ( )% CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC	WEATHERING	INTACT STRENGTH (EH VH H M L VL EL)	DEFECT SPACING (mm) (20 60 200 600 2000)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	TESTS
0	20.90												
	20.75		(100) 100		**CONCRETE**								
1					**SILTY GRAVEL** (Fill) Becoming Clayey Silt and Sand with depth. Base on drillers log.								
	19.40				**CLAYEY SAND and GRAVEL - CONTAMINATED** (Fill)								
2					Strong petroleum odour.						Sample Retained		
	18.40				**PEAT / CLAYEY SILT** (Fill?)						10,14/120 N>50		SPT
3					Peat is earthy black, moist, sandy silt is moist, fine grained, hard, possibly an HW sandstone used as fill.								
	17.10				**SANDSTONE**								
4					Grey to pale orange yellow, moist, fine to medium grained. Exhibits properties of medium dense - dense Clayey Sand. Clay content increases with depth.						9,12,18 N=30		SPT
5													
											12,14,20 N=34		SPT
6													
7						XW					5,15,14 N=29		SPT
	12.80				**SILTSTONE**								
8					Grey with red concretions, low plasticity, moist. Exhibits properties of dense - very dense slightly sandy Silt.						3,11,21 N=32		SPT
9													
10													

ENGINEERING BOREHOLE FG5404 - BOREHOLES.GPJ QLD MAIN ROADS.GDT 17/11/05

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

LOGGED BY
J. Kleindienst

Queensland Government
Department of Main Roads

ENGINEERING BOREHOLE

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BOREHOLE No BH12
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10	10.90				**Siltstone Cont'd.** As above, yellow brown in colour.	XW					30/90 N>50		SPT
11	9.40				**SHALE** Brown, fine grained, fissile, very low strength.	HW					12,30/120 N>50		SPT
12	8.90		(95)		**SANDSTONE** Brown to pale yellow, fine grained, sub horizontal bedding.						Clayey band.		
	8.52				Brown to grey, fine grained, sub horizontal laminations, low strength.	MW					Is(50)=0.17 MPa Is(50)=0.28 MPa		x o
13	7.80				Grey to brown, as above, low - medium strength, very few defects.						Is(50)=0.27 MPa Is(50)=0.36 MPa Is(50)=0.22 MPa Is(50)=0.24 MPa		x o x o
14						MW-SW					Is(50)=0.28 MPa Is(50)=0.56 MPa		x o
15	5.90		100								Is(50)=0.33 MPa Is(50)=0.55 MPa Is(50)=0.28 MPa Is(50)=0.73 MPa		x o x o
					Borehole terminated at 15m								
16													
17													
18													
19													
20													

ENGINEERING BOREHOLE FG5404 - BOREHOLES.GPJ QLD MAIN ROADS.GDT 17/11/05

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

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J. Kleindienst

Project: **Ipswich Motorway / Logan Motorway Interchange**

Borehole No: **BH12**

Start Depth: 12.0m
Finish Depth: 15.0m
Project No: FG5404
H No: 9757