Queensland Government
Department of Main Roads

ENGINEERING BOREHOLE

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

BOREHOLE No **BH16**
SHEET 1 of 2
REFERENCE No **H9765**

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION
LOCATION Near Pier 2, Approximate Chainage 565, 4.5m right of control MCJ1-C. COORDINATES 29973.3 E; 147328.3 N
PROJECT No FG5404 SURFACE R.L. 16.90 DATE STARTED 19/10/05 DATUM Ipswich Motorway
JOB No 148/17A/57 DATUM AHD DATE COMPLETED 19/10/05 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	16.90				**CONCRETE**								
	16.70				**SILTY CLAY** (Residual) Orange - brown. Based on drillers logs only.								
1	15.90				**SANDSTONE** Pale grey - grey, minor orange brown iron staining, fine - medium grained, clayey throughout, moist. Relict fabric visible in parts. Exhibits properties of medium dense Clayey Sand.	XW					2,6,10 N=16		SPT
2													
3											4,5,8 N=13		SPT
	13.10				**Interbedded SANDSTONE and SILTSTONE** Pale grey, minor orange brown iron staining, fine grained, moist. Clayey bands in parts and fine mica throughout. Subhorizontal structure and thin laminations visible throughout. Exhibits properties of very dense Clayey Sand or Clayey Silt. Occasional organic interlaminations.	XW-HW					12,30/120mm N>50		SPT
4													
5													
6											9,30/120mm N>50		SPT
7											30/110mm N>50		SPT
	9.40		(85)		**Interbedded SILTSTONE and MUDSTONE** Some fine grained Sandstone interbeds in parts. Grey - pale grey and yellow brown. Thinly laminated in parts. Subhorizontal bedding. Occasional HW clayey bands. Defects mostly dip parallel bedding, 40°, 80°. Defect surfaces are mostly PL, SM, C, CN with sligh iron or oxide stains.	MW					Jt, 80°, PL, SM, T, CN Is(50)=0.18 MPa	x	
8											Jt, 80°, Cu, SM, T.		
	8.05										Jt, 40°, PL, SM, C, CN. HW sheared CLy seam, 10°. Is(50)=0.20 MPa	x	
9	7.20				**SANDSTONE with SHALE and CARBONACEOUS MUDSTONE Interbeds** Pale grey and dark grey, fine grained. Bedding 0-10°. Defects as before.	SW					Jt, 80°, PL, R, O, CN Is(50)=0.34 MPa Jt,10°,PL,SM,C,SL,Fest,waxy feel. HW sheared CLy seam, 10°. Is(50)=0.33 MPa Is(50)=0.43 MPa	o x o	
10					**SANDSTONE** Jt, 70°, Un, R, O, CN.								

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

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ENGINEERING BOREHOLE FG5404 - BOREHOLES.GPJ QLD MAIN ROADS.GDT 16/11/05

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ENGINEERING BOREHOLE

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

BOREHOLE No BH16
SHEET 2 of 2
REFERENCE No H9765

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Near Pier 2, Approximate Chainage 565, 4.5m right of control MCJ1-C. COORDINATES 29973.3 E; 147328.3 N

PROJECT No FG5404 SURFACE R.L. 16.90 DATE STARTED 19/10/05 DATUM Ipswich Motorway

JOB No 148/17A/57 DATUM AHD DATE COMPLETED 19/10/05 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
10	6.90												
					Pale grey, fine grained, Thin siltstone bands and carbonaceous laminations throughout. Bedding 0-10°.	SW					Is(50)=0.33 MPa		x
	6.40		100								Is(50)=0.65 MPa		o
					Borehole terminated at 10.5m								
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

ENGINEERING BOREHOLE FG5404 - BOREHOLES.GPJ QLD MAIN ROADS.GDT 16/11/05

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: **BH16**

Start Depth: 7.50m
Finish Depth: 10.50m
Project No: FG5404
H No: 9765