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**Queensland  
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**Main Roads**

# ENGINEERING BOREHOLE

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

BOREHOLE No     BH10    

SHEET     1     of     2    

REFERENCE No     H9657    

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Near Pier 2, Approximate Chainage 646m, about 4m right of control MCB1-C. COORDINATES 29963.5 E; 147433.1 N

PROJECT No FG5404 SURFACE R.L. 19.40 DATE STARTED 26/07/05 DATUM Ipswich Motorway

JOB No 148/17A/57 DATUM AHD DATE COMPLETED 26/07/05 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	HM	JL	VL				
0	19.40					<b>CLAYEY SILT / SAND and GRAVEL (Fill)</b> Brown, moist, minor organics. Contains gravel up to 25mm size.										
1														10,10,21 N=31	SPT	
2	17.40					<b>SAND (Alluvium)</b> Pale brown grey, fine to medium grained, very moist, minor clay throughout, dense.	SM-SP							6,6,8 N=14	SPT	
3	16.20					<b>SANDSTONE</b> Pale grey, fine to medium grained, moist, minor yellow brown iron staining in parts, trace siliceous gravel up to 20mm. Exhibits engineering properties of dense Clayey Sand.	XW							12,14,23 N=37	SPT	
4																
5	13.90															
6						Pale grey, yellow brown iron staining, fine grained, clay matrix, relict sub horizontal fabric visible. Exhibits engineering properties of very dense Clayey Sand.	XW-HW							10,17,30/115mm N>50	SPT	
7														12,24,30/100mm N>50	SPT	
8	11.40					<b>SILTSTONE</b> Pale grey and pale brown, laminated, moist. Exhibits engineering properties of very dense Clayey Silt.	XW-HW							30/120mm N>50	SPT	
9	10.40		(100)			<b>Interbedded SILTSTONE and SANDSTONE</b> Pale brown to pale grey, minor thin carbonaceous laminations throughout, minor yellow brown iron staining and red bands in parts.	MW-SW						Bedding ~10°	Is(50)=0.21 MPa Is(50)=0.21 MPa	x o	
10														Is(50)=0.19 MPa Is(50)=0.12 MPa	o x	

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     BH10    

SHEET     2     of     2    

REFERENCE No     H9657    

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Near Pier 2, Approximate Chainage 646m, about 4m right of control MCB1-C. COORDINATES 29963.5 E; 147433.1 N

PROJECT No FG5404 SURFACE R.L. 19.40 DATE STARTED 26/07/05 DATUM Ipswich Motorway

JOB No 148/17A/57 DATUM AHD DATE COMPLETED 26/07/05 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
								EH	VH	I	M	J	VL				
10	9.40					<b>Interbedded Siltstone and Sandstone Cont'd.</b>	MW-SW									Is(50)=0.16 MPa	x
	9.10					<b>SANDSTONE</b>  Pale grey, minor yellow iron staining, fine grained, minor thin carbonaceous laminations. Bedding ~10°, defects mostly drilling induced.									Bedding 10°	Is(50)=0.20 MPa	o
						Below 11.45m, fine to medium grained, silicified.	SW								Bedding 5° Jt, 20°, PL, SM, C, thin CL coat 0.5mm thick. Bedding 20°	Is(50)=0.81 MPa Is(50)=1.51 MPa	x o
12	7.40		94			Borehole terminated at 12m											
13																	
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: **BH10**  
Start Depth: 9.00m  
Finish Depth: 11.82m  
Project No: FG5404  
H No: 9657

