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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 BH17

SHEET 1 of 2

REFERENCE No H9720

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Near Pier 3, Approximate Chainage 595m, on control MCJ1-C. COORDINATES 29944.6 E; 147321.2 N

PROJECT No FG5404 SURFACE R.L. 21.70 DATE STARTED 19/07/05 DATUM Ipswich Motorway

JOB No 148/17A/57 DATUM AHD DATE COMPLETED 19/07/05 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
0	21.70					ASPHALT and ROAD BASE							
21.20						CLAYEY SANDSTONE Pale grey, orange brown iron staining in parts, fine grained, moist. Exhibits engineering properties of medium dense - dense Clayey Sand or varies to hard Sandy Clay in parts.					5,7,8 N=15	SPT	
1													
2													
3											High proportion of fines, kernels of less weathered rock 5mm size visible in parts.	5,11,30 N=41	SPT
4						Relict structure visible in parts.						12,14,19 N=33	SPT
5							XW						
6						Less clayey matrix.						16,18,20 N=38	SPT
7						Possible cobble. Becoming fine to medium grained.					SPT shoe damaged.	13,30/120mm N>50	SPT
8													
9						Fine grained, clayey in parts.						14,12,28 N=40	SPT
10	11.70												

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

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BOREHOLE No BH17

SHEET 2 of 2

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								EH	VH	HM	JL	VL				
10	11.70					SANDSTONE and SHALE Interbeds Pale grey, discoloured yellow brown, fine grained. Thin carbonaceous interlamination in shale beds. Bedding ~10°. Defects mainly parallel bedding, occasionally 70°. Most defect surfaces are PL, SM, CN, C, occasional clay film.	HW							30/70mm N>50 Bedding ~10° Siltstone band Jt, 70°, PL, T Jt, 70°, Un, R, T, calcite infill 1mm thick.	SPT x o o x	
11			(100)													
12			100 (0)													
13	8.73		0 (0)													
13			36 (0)			Dark grey and grey, fine grained, occasional HW bands, carbonaceous in parts.	MW							Siliceous cobble 70mm size. Possible HW Sandstone with siliceous boulders. Siliceous cobble 70mm size	x o SPT	
14			0 (0)			Bedding ~10°. Defects mostly dip ~10°. Defect surfaces are mostly PL, SM, SR, C.	MW							10/5mm Several intersecting Jts, bedding plane partings, some clay infills	x o	
14	7.40		(63)													
15	6.65		100			SANDSTONE Grey, fine grained, thin carbonaceous interlamination throughout. Bedding ~10°. Defects ~10°, subvertical. Defects surfaces mostly PL, SR, C with thin clay coat or grey clay infill 0.5mm thick.	MW							Jt, 10°, PL, SR, CN, O	x	
15						Borehole terminated at 15.05m								Is(50)=0.46 MPa		
15														Is(50)=0.31 MPa	o	
16																
17																
18																
19																
20																

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

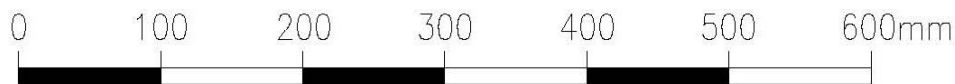
Borehole No: **BH17**

Start Depth: 10.50m

Finish Depth: 15.05m

Project No: FG5404

H No: 9720



SCALE 1:5