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**Queensland
Government**

Department of
Main Roads

ENGINEERING BOREHOLE

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

BOREHOLE No BH5

SHEET 1 of 2

REFERENCE No H9740

PROJECT IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION

LOCATION Near Pier 6, Approximate Chainage 173m on control MCK1-C. COORDINATES 29628.7 E; 147281.9 N

PROJECT No FG5404 SURFACE R.L. 24.00 DATE STARTED 26/08/05 DATUM Ipswich Motorway

JOB No 148/17A/57 DATUM AHD DATE COMPLETED 26/08/05 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				
0	24.00					GRAVELLY SILT (Residual) Grey.	GM										
23.80						SILTSTONE Pale grey with orange red iron staining throughout, clayey. Exhibits engineering properties of very stiff Clayey Silt / Silty Clay. Fine sand in parts.	XW-HW								7,10,12 N=22	SPT	
22.00						SANDSTONE Pale grey with orange iron staining throughout, fine grained, dry, friable. Silty in parts. Exhibits engineering properties of very dense slightly clayey Sand.	XW-HW								12/20mm HB N>50	SPT	
19.90			(76)			Pale grey - grey, discoloured with minor brown iron staining in parts. Fine - medium grained quartz with a slightly clayey matrix in parts. Minor thin carbonaceous interlamination in parts. Bedding ~10°.	SW							Slightly siliceous cementation. Jt, 70-80°, PL, SR, O, minor Fest	Is(50)=0.90 MPa Is(50)=0.72 MPa	x o	
			100 (95)			Defects mostly dip 10°, 40°, 70°, 80°. Most defect surfaces are PL, SM-SR, C or T, CN, occasionally with a brown clay coat or infill up to 15mm thick.	MW							MW-HW band.	Is(50)=0.65 MPa	o	
							SW								Is(50)=0.11 MPa	x	
							SW								Is(50)=0.24 MPa Is(50)=0.48 MPa	x o	
						Between 7.05 and 8.55m: Brown iron stained band with clayey weathering throughout.	MW							Jt, 80°, Un, C, thin HW infill. Jt, 40°, PL, SM, T. Is(50)=0.21 MPa Jt, 70°, PL, SM, 5mms(50)=0.25 MPa brown CL infill Jt, 70°, PL, SR, thin CL film.		x o	
			100 (90)				MW							Jt, 10°, T, CL film.			
							SW							Jt, 80°, PL, SM, 15mm brown CL infill HW band. Resembles Vst sandy clay			
							SW								Is(50)=0.94 MPa Is(50)=1.24 MPa	x o	
							MW							Jt, 90°, T, Fest, CL infill.			
14.20						Between 9.65 and 9.78m: Claystone / siltstone band.	SW							2 Jts, 20°, PL, SR, O, Ox, CL film Jt, 80°, PL, SR, T. Numerous CL seams, 10°, 5-10 mm thick.			

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

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BOREHOLE No BH5

SHEET 2 of 2

REFERENCE No H9740

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LOCATION Near Pier 6, Approximate Chainage 173m on control MCK1-C. COORDINATES 29628.7 E; 147281.9 N

PROJECT No FG5404 SURFACE R.L. 24.00 DATE STARTED 26/08/05 DATUM Ipswich Motorway

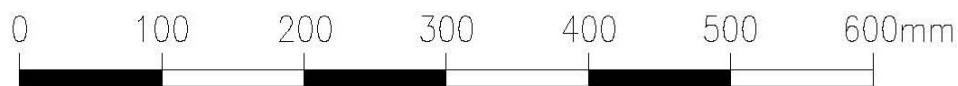
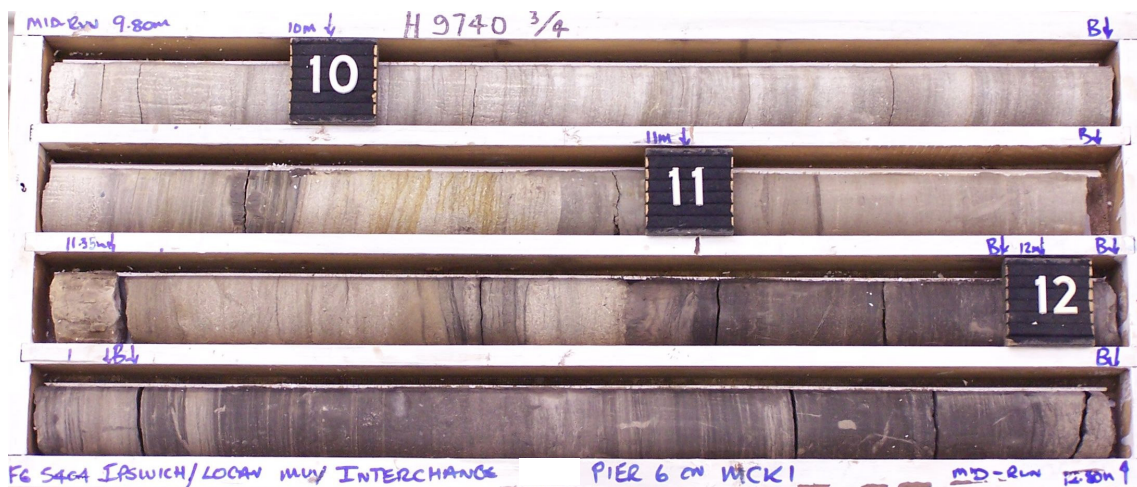
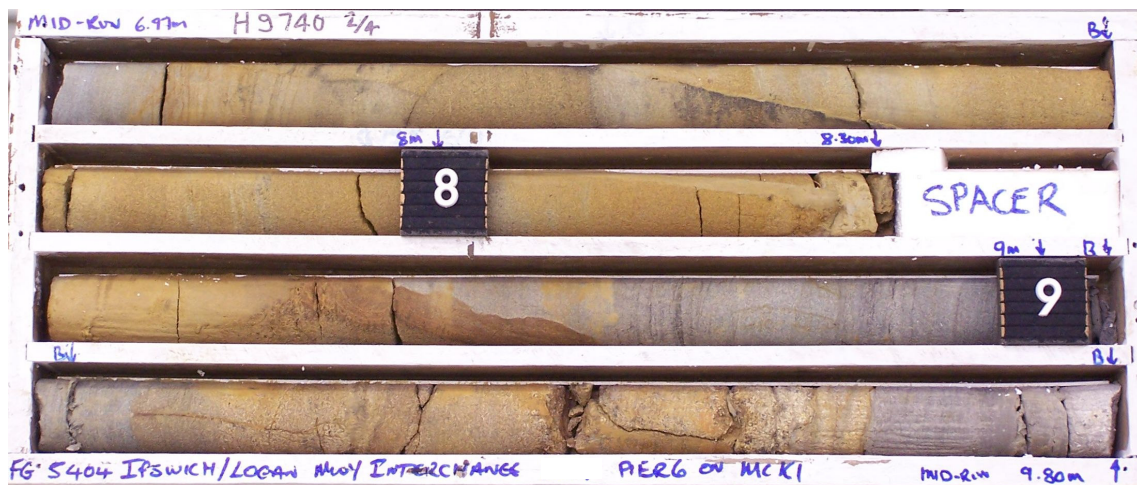
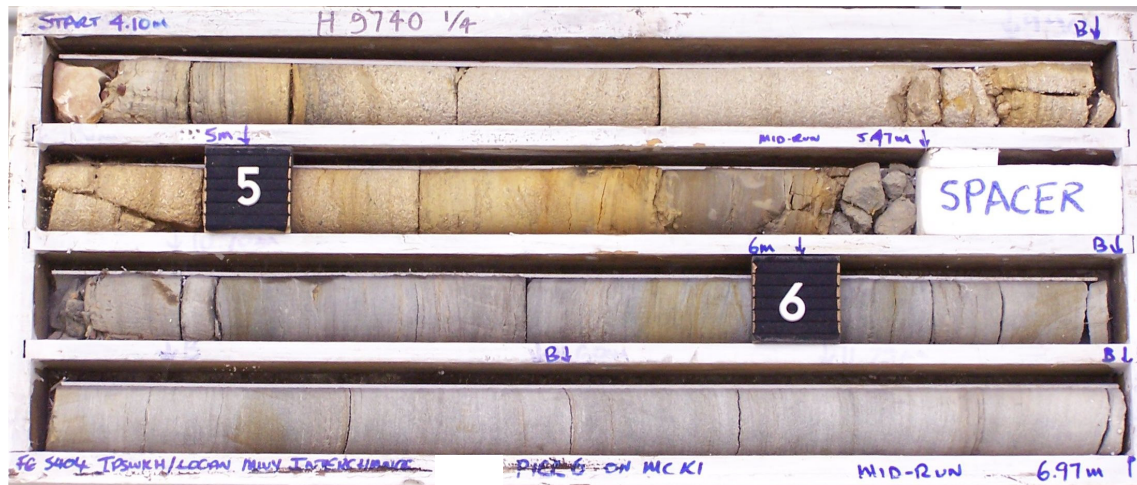
JOB No 148/17A/57 DATUM AHD DATE COMPLETED 26/08/05 DRILLER Drillsure

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								EH	VH	HM	JL	VL	EL				
10	14.00					Sandstone Cont'd. As before. Numerous drilling induced breaks along faint bedding planes.									Is(50)=0.29 MPa Is(50)=1.03 MPa	x o	
11				100 (92)										CL seam 10°, 5mm thick.			
12	12.30					MUDSTONE and SANDSTONE Interbeds Dark grey - black, thinly laminated. Sandstone interbeds are fine grained. Bedding~10°. Occasional black coal seams dipping 10° up to 20mm thick.	SW							HW clayey contact. 2 CL seams 10°, 5-8mm thick.	Is(50)=0.46 MPa Is(50)=0.40 MPa	x o	
13	11.20					SANDSTONE Grey with occasional dark grey mudstone bands. Numerous thin carbonaceous interlaminae throughout. Bedding 10°, local variations to 20°.								Carb lam, 20°, PL, SR, DI?	Is(50)=0.23 MPa Is(50)=1.05 MPa	x o	
14	10.13			100										Carb mudstone band. Jt. 40°. R. O.	Is(50)=0.56 MPa Is(50)=1.65 MPa	x o	
14						Borehole terminated at 13.87m											
15																	
16																	
17																	
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19																	
20																	

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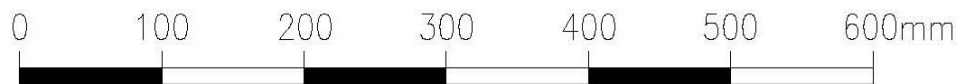
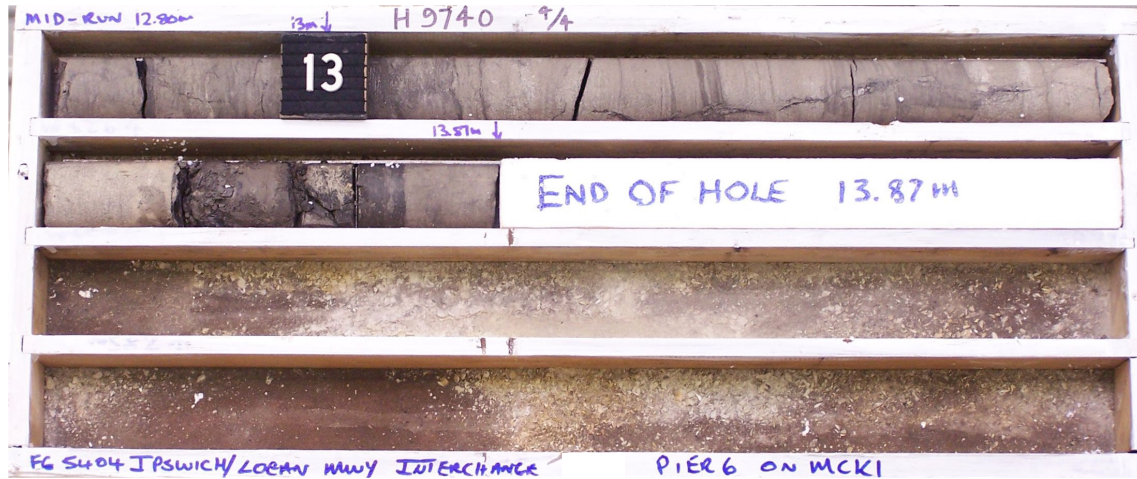
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Project: **Ipswich Motorway / Logan Motorway Interchange**
 Borehole No: **BH5**
 Start Depth: 4.10m
 Finish Depth: 13.87m
 Project No: FG5404
 H No: 9740



SCALE 1:5

Project: **Ipswich Motorway / Logan Motorway Interchange**
Borehole No: **BH5**
Start Depth: 4.10m
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SCALE 1:5