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

## ENGINEERING BOREHOLE

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

BOREHOLE No	B <u>H19</u>
SHEET	_1_ of _2_
REFERENCE No	H9651

LOCATION	_Nea	r Pier 5, (	Chair	page 669m, on control MC I1 C									
							Near Pier 5, Chainage 668m, on control MCJ1-C.						
PROJECT N		FG5404			D	DATE STARTED _		0 <u>5</u>	DATUM <u>Ipswich Moto</u>	way			
JOB No	<u>148</u>	<u>148/17A/57</u>		DATUM <u>AHD</u> .	DATI	E COMPLETED	_21/07/0	0 <u>5</u>	DRILLER <u>Drillsure</u>				
(E) R.L. (m) PLATH (m) 0 24.80	AÚGER CASING WASH BORING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	STRENGTH SP	ACING (mm)	GRAPHIC LOG	ADDITIONAL DATA  AND  TEST RESULTS	SAMPLES TESTS			
24.35				ASPHALT  ROADBASE					30/90mm	- - - - - - - - -			
23.80 23.30 23.30 23.30				SANDSTONE Grey orange, fine grained, slightly moist. Exhibits properties of very dense Clayey Sand.  SILTSTONE  Grey, minor orange iron staining, fine grained, low to medium plasticity, moist. Very stiff.  Exhibits engineering properties of very stiff - hard Silty Clay or varies to medium dense - dense Clayey Silt in parts.  Grey, trace of ironstaining, low plasticity, moist. Minor silt or varies to Silty Clay in parts.  Grey, moist, friable, minor sand throughout. Varies to sandy clay in parts. High proportion of fines.  SANDSTONE  Pale grey, minor iron staining, fine grained, moist. Faint relict structure visible in parts.	xw				30/90mm N>50  MC=16.7, WPI=2433  MC=16.7, WPI=2433  S,8,13 N=21 PI=24 LL=41 LS=14  MC=16.5, WPI=1978  5,7,10 N=17 PI=20 LL=36 LS=13  6,6,9 N=15  6,9,12 N=21  9,12,28 N=40  Trace organic wood 5mm size. N=54	SPT -			
				Exhibits engineering properties of very dense Clayey Sand.  Fine to medium grained.		T			21,19,27 N=46 Gravel layer (Drillers log)	SPT			
	S No ç	gr <u>oundwat</u>	er rep	Resembles slightly clayey, medium grained sand.	shee	t for abbreviation	IS		9,15,19 N=34 LOGGED BY JML	SPT			



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## ENGINEERING BOREHOLE

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

BOREHOLE No	BH19
SHEET	_2_ of _2_
REFERENCE No	H9651

PRO	JECT	IPSWICH MOTORWAY / LOGAN MOTORWAY GEOTECHNICAL INVESTIGATION									
LOC	ATION	Near Pier 5, Chainage 668m, on control MCJ1-C.         COORDINATES         29872.7 E; 147306.7 N									
PRO	JECT No	FG5404 SURFACE R.L. 24.80					DATE STARTED _21/07/05_		05_	DATUM <u>Ipswich Motorway</u>	
JOB	No	<u>148/</u> 1	17 <u>A/57</u> _		DATUM <u>AHD</u>	DATE	E COMPLETED	21/07/	05	DRILLER <u>Drillsure</u>	
DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING		SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	STRENGTH SP.	EFECT ACING mm)	GRAPHIC LOG	ADDITIONAL DATA  AND  TEST RESULTS	SAMPLES TESTS
_10	14.80		REC %	0)	Sandstone Cont'd.				0		<i>™</i> ⊢
- - - - - - - -	14.30				SILICEOUS GRAVEL  Siliceous gravel layer, particle size 5 to 40mm.  Driller reported water loss.	xw	‡ <u>‡</u>			Siliceous gravel layer. 30/120mm -	- - - - - - -
- · · ·	13.60				SANDSTONE					N>50	SPT _ - -
- - - - - - - - - - - - - - - - - - -					Pale brown, fine grained, clayey bands, relict structure visible and laminations.  Exhibits engineering properties of very dense, fine Clayey Sand.	XW- HW				30/120mm N>50	SPT
- 13 - - - - -	11.30						<u> </u>	1::::		Bedding 30°	-
- - - 14 - - - - -	10.10		100		Yellow brown, mostly fine grained - medium in parts, occasional interbeds of siltstone and shale.  Bedding 20 - 30°. Occasional massive medium grained bands.	HW				Jt, 30°, PL, SM, C thin brown CL coat Is(50)=0.26 MPa Fine to medium Is(50)=0.20 MPa grained massive band.  Bedding 20°	x - 0
- - - - 15 - - - -	10.10		100		SILTSTONE and SHALE INTERBEDS Grey, discoloured yellow, minor iron staining, fine grained, clayey in parts. Bedding ~30°. Occasional XW bands. Defects 30°, 50°. Defect surfaces mostly PL, SM, C, thin clay film.	MW- HW				Is(50)=0.24 MPa Is(50)=0.23 MPa	x - 0 - -
-	9.00				CARRONA CECUIO CUAL E			. : :   		XW clayey band ~30° Jt, ~30°, PL, R, XW grey clay infill	-
- 16 	7.70		44		CARBONACEOUS SHALE  Dark grey with thin pale grey siltstone interlaminations, clayey in parts, bedding 30°.  Below 16.08m core is highly fractured and broken up (possibly drilling induced).	HW				2-3mm thick HW clayey band	
-					Borehole terminated at 17.1m						-
- 18 - 18 - 19 - 19 - 20	EMARKS	. No an	roundwat	er rei	ported during drilling. See Additional Descriptive Coding	shee	t for abbreviation	S.		LOGGED BY	
										JML	

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

Borehole No: BH19
Start Depth: 13.50m
Finish Depth: 17.10m
Project No: FG5404
H No: 9651



