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

## ENGINEERING BOREHOLE

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

BOREHOLE No	<u>BH38</u>
SHEET	_1_ of _2_
REFERENCE No	H9733

PROJ	ECT	<u>IPS</u>	<u>WIC</u>	H MC	<u>TOF</u>	RWAY / LOGAN MOTORWAY GEOTECHNICAL I	<u>NVE</u> S	STIGATION _				
LOCA	TION									OORDINATES <u>28566.2 E; 146963.8 N</u>	<u> </u>	
PROJ	ECT No	_F <u>G</u> 5	FG5404					DATE STARTED _21		/0 <u>5</u>	DATUM <u>Ipswich Moton</u>	way
				<u>V57</u>			DAT	E COMPLETED	21/08	/05	DRILLER <u>Drillsure</u>	
DEPTH (m)	R.L. (m)	R IG BORING	DKILLING (	RQD )%	SAMPLE	MATERIAL DESCRIPTION	C SATHERING	INTACT DE STRENGTH SP. (	ACING mm)	GRAPHIC LOG	ADDITIONAL DATA  AND  TEST RESULTS	SAMPLES
0	10.10	<b>8</b> 888	RI	EC %	-		USC	DY M <czi<m< td=""><td>7000</td><td>GR</td><td></td><td>SA</td></czi<m<>	7000	GR		SA
-11	9.70					ASPHALT and ROAD BASE  SANDY CLAY (Fill)  Pale grey - yellow brown, minor mottling with orange iron stains, fine grained, low plasticity, moist. Firm.					1,2,3 N=5 PI=19 LL=47 LS=11	SPT -
- - - - - - -	7 10					SILTY CLAY (Alluvium)  Dark brown - black, organic, intermediate plasticity, moist. Stiff - very stiff.	CI- OL	± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±			DD=1.50 t/m <sup>3</sup> WD=1.96 t/m <sup>3</sup> MC=30.6% ( PP(Su) = 170 KPa Consolidation	U48 -
-3 -	7.10					SILTY CLAY (Alluvium)  Dark brown, minor iron stains, intermediate plasticity, moist, trace organics. Stiff.					4,5,5 N=10	SPT =
-4          						Becoming brown-grey, trace gravel up to 10mm size.	CI	T : 1			3,4,5 N=9 3,3,5 N=8	SPT
- - - - - - - - - - - - - - - - - - -	3.10							# # # # # # # # # # # # # # # # # # #			4,4,6 N=10	SPT -
-7 - - - - - - - - - - - - - - - - - - -						SANDY CLAY (Alluvium)  Brown-grey, minor orange iron staining throughout, fine grained, intermediate plasticity, moist. Trace organics. Firm to very stiff with depth.					2,3,3 N=6	SPT -
						Minor medium grained sand bands.  Pale grey with minor iron stains. Very stiff.	CI	+			2,3,6 N=9	SPT -
- - - - - - 10	0.10							+			6,10,12 N=22	SPT -
REMARKS No groundwater reported during drilling. See Additional Descriptive Coding sheet for abbreviations.								LOGGED BY JML				



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

## ENGINEERING BOREHOLE

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

BOREHOLE No	BH38
SHEET	_2_ of _2_
REFERENCE No	<u>H9733</u>

	JECT											
					Near Abutment B, Approximate Chainage 12898n							
PROJECT No <u>FG5404</u>						DATE STARTED <u>21/08/05</u>					rway	
JOB No <u>148/17A/57</u>					DATUM <u>AHD</u> .	DAT	E COMPLETED _2	1/08/	0 <u>5</u> _	DRILLER <u>Drillsure</u>		
DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING		SAMPLE	MATERIAL DESCRIPTION	USC	INTACT DEFE STRENGTH SPACI (mm	CT NG ) 0007	GRAPHIC LOG	ADDITIONAL DATA  AND  TEST RESULTS	SAMPLES TESTS	
-					CLAYEY SAND (Alluvium)					12,13,22	SPT -	
- - - - - - - - - -	-1.60				Pale grey-brown, minor orange iron stains, fine - medium grained, moist. Occasional thin iron cemented bands. Dense.	SC				N=35 9,10,14 N=24	SPT -	
-					CLAYEY SANDSTONE							
- 12 - - - - - - - - - - - - - - - - - - -					Pale grey, orange iron staining throughout, trace organics, moist. Slightly cemented with relict structure visible in parts and kernels of less weathered rock.  Exhibits engineering properties of very dense Clayey Sand. Varies to Clayey Silt in parts.	xw				15,25,30/120mm N>50 17,30/120mm N>50	SPT _	
- - - - - - 14 - -	-3.90		(86)		SANDSTONE					6/0mm HB N>50 Silicified band. Is(50)=0.55 MPa Is(50)=0.57 MPa	SPT - x - 0	
- - - - -					Pale grey, discoloured yellow brown with minor orange iron stains.  Medium grained, quartz with a slightly clayey matrix. Some high strength silicified bands in					Is(50)=0.12 MPa Is(50)=0.12 MPa Is(50)=0.12 MPa	x _ o -	
15 - - - - -					parts and occasional HW clayey bands.  Minor thin carbonaceous interlaminations throughout.	MW				Is(50)=0.15 MPa Is(50)=0.16 MPa Jt, 70°, PL-Un, SR, T, 1mm CL infill.	x -	
-					Bedding ~20°.					Is(50)=0.16 MPa Is(50)=0.24 MPa Brecciated / Faulted zone, 30mm	0 ]	
- 16 - - - - - -	-6.45				Defects mostly dip 20°, occasionally 70°. Defect surfaces are mostly PL, SM, C, CN occasionally with a claystone infill 1mm thick.					Brecotated / Faunted zone, 30mm thick on Jt, 45°, PL, SR, slickensided. Resembles gravelly fragments in a clayey sand matrix, very dense. Is(50)=0.23 MPa Is(50)=0.25 MPa	x -	
-	-6.90		100			SW					-	
- 18 18 19 19		No.			Borehole terminated at 17m					LOCCEDRY		
KE	IVIAKKS	ino gi	ounawat	ei <u>re</u> l	ported during drilling. See Additional Descriptive Coding	<u>snee</u>	tioi addieviations.			LOGGED BY JML		

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

Borehole No: BH38
Start Depth: 14.00m
Finish Depth: 17.00m
Project No: FG5404
H No: 9733



