ENGINEERING BORELOG

Main Roads

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM BQF 075:191/95

BOREHOLE No : 106
SHEET : 1 OF 1
REFERENCE No : H8178

PROJECT : SOUTH EAST TRANSIT PROJECT-SECTION 1
LOCATION : 2077.272 164454.188
PROJECT No : C60128 SURFACE R.L. : 9.13 DRILLER : DALY BROTHERS PTY LTD
JOB No : DATUM : AHD DATE DRILLED : 23/1/98

DEPTH (m)	R.L. (m)	AUGER / CORE DRILLING / CASING / OTHER	RQD ( )% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	USC	WEATHERING	INTACT STRENGTH (EH VH H M L VL)	DEFECT SPACING (mm) (20 60 200 600 2000)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES / TESTS
0	9.13				**FILL** Consisting dark grey to black, dry to moist, firm to stiff a mixture of gravel sand, silt and clay. Occasional sandy silty clay layers; old brick fragments. (Non-engineered type fill).	GC					2,3,2 N=5	SPT
1												
	7.38				**SILTY CLAY** Pale brown to grey brown, moist, stiff. (Probable residual type material)	CL					3,4,5 N=9	SPT
2												
	6.38				**PHYLLITE** GREY GREEN TO GREY, MEDIUM TO COARSE GRAINED FOLIATED METASEDIMENTARY ROCK. FOLIATION PLANE <20 DEGREES. DARK (MICA) AND PALE (QUARTZ) INTERLAYERS. BOTH CONCORDANT AND DISCORDANT MEDIUM TO COARSE QUARTZ VEINS. ROCK TENDS TO BREAK ALONG BEDDING PARTINGS. XW :Generally exhibits engineeering properties of white to grey green, very stiff moist silty clay. Occasionl sand to gravel size particles.	XW					4,7,10 N=17	SPT
3												
4											5,7,11 N=18	SPT
			(0%) 90									
5	3.95				**HW :** Grey brown, mainly core stones and rock kernals in minor sandy silty clay matrix; Occasional medium to coarse quartz grains.	HW					Pressuremerer Test at 5.5m Is(50)=0.16MPa	x
			(0%) 82									
6	2.78				**MW :** Grey brown to orange brown, completely to partly ironstaining throughout. Defects : bedding parting.	MW					Is(50)=1.22MPa Is(50)=0.97MPa Water Pressure Test from 7.5m to 8.9m Packer Test WPT= 4uL Is(50)=2.27MPa Pressremeter Test at 7.5m	o o o
7			(14%) 100									
	1.24				**SW :** Grey to blue green, bedded. Defects : Major bedding partings (0-30 degrees); occasional 70 degrees.	SW					Is(50)=1.35MPa Is(50)=0.77MPa Is(50)=0.84MPa	x x o
8	0.23		(26%) 100									
9					END OF HOLE							
10												

REMARKS : See attached list for defect descriptions.

LOGGED BY
DISS

Main Roads
Queensland Department of Main Roads

DEFECT DESCRIPTIONS OF BORELOGS

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BOREHOLE NO :	106
SHEET :	1 of 1
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PROJECT : SOUTH EAST TRANSIT PROJECT - SECTION 1
LOCATION : 2077.272E 164454.188N
PROJECT NO : C60128 SURFACE R.L : 9.13 DRILLER : DALY BROTHERS P/L
JOB NO : DATUM : AHD DATE DRILLED : 15/1/98

DEPTH	DEFECT TYPE	APPRO. DIP ANGLE (deg°)	PLANARITY	ROUGHNESS	APERTURE	WALL ALTERATION	OTHER
6.00	FP	10	Ir	R	O	P FeSt	
6.13	FP	45	Ir	R	C	P FeSt	
6.42	FP	15	Pl	R	C	Co FeSt	
6.63	FP	20	R	R	O	CoW	
6.89 - 7.55	FP	20	Pl	R	O - C	Co - P FeSt	HFZ along BP
7.72-7.76	FP	20	Ir		O	Co FeSt	HFZ along BP
7.76-7.78							Discordant QZ
8.00		15	Ir	R	O	Co FeSt	
8.55	FP	20	Pl		T		
8.60	J	70	Ir	R	O	P - Co FeSt	PCI
8.85	FP	10	Ir	R	O	P FeSt	
8.88	FP	10	Ir	R	O	P FeSt	

Abbreviations

ROUGHNESS		WALL ALTERATIONS		TYPE		OTHER	
R	Rough	FeSt	Iron Stained	J	Joint	P	Partly
Sm	Smooth	W	Weathered	B	Bedding	QZ	Quartz Vein
SL	Slickensided			FP	Foliation Parting	Co	Completely
				F	Fracture	In	Incipient
PLANARITY		**APERTURE**		SZ	Sheared Zone	SI	Sand Infill
Pl	Planar	C	Closed	WS	Weathered Seam	H	Horizontal
St	Stepped	O	Open	CZ	Crushed Zone	V	Vertical
Un	Undulating	F	Filled	SM	Secondary Mineralisation	Cl	Clay Infill
Cu	Curved	T	Tight	BZ	Broken Zone	Cn	Clean
Ir	Irregular			HFZ	Highly Fractured Zone		

NOTE: This sheet should be read in conjunction with appropriate Engineering Borelog.