ENGINEERING BORELOG

Main Roads

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

BOREHOLE No : 136
SHEET : 1 OF 1
REFERENCE No : H8200

PROJECT : SOUTH EAST TRANSIT PROJECT - SECTION1
LOCATION : 3120.478E 163457.912N
PROJECT No : C60128 SURFACE R.L. : 18.84 DRILLER : DALY BROTHERS PTY LTD
JOB No : DATUM : AHD DATE DRILLED : 30/01/98

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	18.84				BITUMEN/ASPHAL PHYLLITE PHYLLITE DARK GREY TO BLUE GREEN MEDIUM TO COARSE GRAINED FOLIATED METASEDIMENTARY ROCK FOLIATION PLANE 40-70 DEGREES, IRREGULAR TO CONTORTED. HW : Yellow brown to mottled grey rock kernals & less sandy silty clay matrix.	HW					30/90 N >50		SPT
1	17.74		(43%) 100		MW : Ornge brown to blue grey, vertically foliated with one HW zone.	MW				XW zone. HW zone.	Is(50)=0.48MPa Is(50)=1.36MPa	x x	
2	16.51		(89%) 100		SW : Drak grey to blue green. Partly to completely red brown ironstining only along defects. Discontiuous dark (mica) and white quartz mineral layering throughout Defetcs : Major - Foliation partings (30-70 deg) Subhorihontal (<20 deg.) Minor - 60 to 70 deg.	SW					Is(50)=0.56MPa	x	
3			(83%) 100								Is(50)=1.04MPa	x	
4											Is(50)=0.82MPa	x	
5			(83%) 100								Is(50)=2.45MPa 11.54MPa	x	UCS
6											Is(50)=1.21MPa	x	
7			(92%) 100								Is(50)=0.9MPa Pressuremeter Test at 6.50m Is(50)=2.54MPa	x x	
8			(88%) 100							HW zone.	Is(50)=1.45MPa Is(50)=0.93MPa	x x	
9	9.74		(94%) 100								Is(50)=1.21MPa 4.23MPa Is(50)=2.04MPa	x UCS x	
10					END OF HOLE								

REMARKS : Please refer attached sheet/s for defect descriptions.

LOGGED BY DISS

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DEFECT DESCRIPTIONS OF BORELOGS

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BOREHOLE NO :	BH136
SHEET :	1 of 2
REFERENCE NO :	H8200

PROJECT : SOUTH EAST TRANSIT PROJECT -SECTION 1

LOCATION : 3120.478E 163457.912N

PROJECT NO : C60128 SURFACE R.L : 16.84 DRILLER : DALY BROTHERS P/L

JOB NO : DATUM : AHD DATE DRILLED : 28/1/98

DEPTH	DEFECT TYPE	APPRO. DIP ANGLE (Deg)	PLANARITY	ROUGHNESS	APERTURE	WALL ALTERATION	OTHER
1.53	FP	55	P	Sm	T		
1.81 - 1.90							XW Zone
2.00	FP	70	P	Sm	O		QZ
2.28	FP	60	Ir	R		PFeSt	
2.58	J	0	Ir	R	O		
2.63	J	10	P	Sm		PFeSt	
2.63	J	10	Ir	R			
3.05	FP	50	P	Sm	C	PFeSt	
3.42	FP	40	Ir	R			
3.63	J	<10	Ir	R			
3.70-3.75							XW Zone
3.83	J	60	P	Sm	T		
4.17	J	<10	St		T	PFeSt	
4.64	J	10	P	R		H1	
4.7	J	10	P	R	T		
4.74	FP	50	P	Sm	O	SM	
4.79	J	10	St	R	C		
4.89	FP	45	Ir	R	C		QZ
5.00	FP	10	Ir	R	O	PFeSt	

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
				Fr	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 Seam
Cu	Curved	T	Tight	BZ	Broken Zone	Cn	Clean
Ir	Irregular			HFZ	Highly Fractured Zone		

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DEFECT DESCRIPTIONS OF BORELOGS

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SHEET :	2 of 2
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LOCATION : 3120.478E 163457.912N

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5.35	J	<10	Ir	R	O		Cl
5.43	J	10	Ir	R	O		
5.55	J	20	St	R	C		
5.69	J	10	P	S		CFeSt	
6.20	J	80	Ir	R	O	CFeSt	
6.20	J	10	Ir	R	C	PFeSt	
6.69	J	20	St	R	C	SM	
7.03	Fr		Cu	R	T		
7.26	FP	55	St		T		QZ
7.45	FP	60	Ir				QZ (20mm)
7.55 - 7.63				R			
7.78	FP	45	Cu	R	T	PFeSt	
7.80	FP	45	Cu	R	T	CFeSt	
8.22	Fr		Cu	R	O		
8.32	J	70	P	R	O	CPFeSt	
8.32	J	<10	Ir	R	O	CFeSt	
8.40	Fr	20	St	R	O	PFeSt	
8.60	J	40	St	R	O	CFeSt	
9.00	Fr	<10	Cu		C	PFeSt	

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