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# ENGINEERING BORELOG

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

BOREHOLE No : 221  
 SHEET : 1 OF 1  
 REFERENCE No : H8162

PROJECT : SOUTH EAST TRANSIT BUS LANE PROJECT - SECTION 2  
 LOCATION : 3712.224E 162582.044N  
 PROJECT No : C60117 SURFACE R.L. : 7.64 DRILLER : DALY BROTHERS PTY LTD  
 JOB No : 650302CN DATUM : AHD DATE DRILLED : 10/12/97

DEPTH (m)	R.L. (m)	AUGER CORE DRILLING CORE CASING OTHER	RQD (%) CORE REC%	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	7.64			<b>SILTY CLAY</b> Grey to red brown, very stiff to hard, moist gravelly, sandy silty clay. High plasticity in silty clay paths, frequent quartz and rock pebbles, throughout. Occasional mottled zones.	CL				10, 10, 8 N=18	SPT
2	5.64			<b>XW SANDSTONE</b> Exhibits engineering properties of red brown, moist, dense to very dense clayey sand.	SC				7, 23, 31 N=54	SPT
4									13, 8, 14 N=22	SPT
5	2.48								6, 12, 30/110 N=>50 Probable oxidation zone	SPT
6	1.34		(28) 72	<b>CONGLOMERATE</b> GREY BROWN TO BROWN, FINE TO COARSE GRAINED MASSIVE SEDIMENTARY ROCK HW: Frequent corestone and rock kernels.	HW					
7	0.99			<b>MW SANDSTONE</b> horizontal bedding; red brown ironstaining throughout.	MW				Is (50) = 0.33MPa	x
7	0.99			<b>SW CONGLOMERATE</b> Red brown ironstaining mainly along defects.	MW				Is (50) = 0.31MPa	x
7	0.29		(70) 97		SW				Is (50) = 0.17MPa	x
7	0.29							Broken zone	Is (50) = 0.19MPa	x
8				<b>END OF HOLE</b>						

REMARKS : \*See attached list for defect descriptions.

LOGGED BY  
DISS

## DEFECT DESCRIPTIONS OF BORELOGS

[FOR GEOTECHNICAL TERMS AND SYMBOLS]

REFER FORM BQF 075:191/95]

BOREHOLE NO :	221
SHEET :	1 of 1
REFERENCE NO :	H8162

PROJECT	SOUTH EAST TRANSIT PROJECT - SECTION 2				
LOCATION :	3712.224E	162582.044N			
PROJECT NO :	C60117	SURFACE R.L :	7.64	DRILLER :	DALY BROTHERS PTY LTD
JOB NO :	650302CN	DATUM :	AHD	DATE DRILLED :	10/12/97

DEPTH	DEFECT TYPE	DIP(Degrees)	PLANARITY	ROUGHNESS	APERTURE	WALL ALTERATION	OTHER
6.54	J	15	Ir		T		
6.6	J	15	Ir		T		
6.93	J		Ir	R	T		

**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			BP	Bedding Parting	Co	Completely
				F	Foliation	In	Incipient
				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	CI	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.

BUS TRANSIT TUNNEL - PACKAGE TWO

HOLE 221  
START 4.91  
END 7.35

H 8162  
1 OF 1  
DEC 1997

C60117

