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# ENGINEERING BORELOG

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

BOREHOLE No : 232  
 SHEET : 1 OF 2  
 REFERENCE No : H8170

PROJECT : SOUTH EAST TRANSIT BUS LANE PROJECT-SECTION 2  
 LOCATION : 4119.1E 162077.9N INCLINED HOLE (ORIENTATION 51 DEGREES TOWARDS 310 DEGREES)  
 PROJECT No : C60117 SURFACE R.L. : 20.71 DRILLER : DALY BROTHERS PTY LTD  
 JOB No : 650302CN DATUM : AHD DATE DRILLED : 2/12/97

DEPTH (m)	R.L. (m)	AUGER CORE DRILLING CORE DRILLING CASING OTHER	RQD (%) CORE REC%	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH				DEFECT SPACING (mm)			GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
							EH	VH	H	M	VL	20	60			
0	20.71				TOP SOIL Brown moist silty clay.									Driller's log only.		
1	19.46				MW TUFF : PALE GREEN TO PALE GREY, FINE COARSE GRAINED MASSIVE PYROCLASTIC ROCK. PORPHYRITIC TEXTURE; FREQUENT PYROCLASTS THROUGHOUT.									Is (50) = 0.76MPa	x	
2			(88) 100													
3	17.38				Red brown ironstaining only along defects.									Is (50) = 0.51MPa	x	
4			(96) 100												Is (50) = 0.47MPa	x
5	15.31				Red brown to dark brown, completely to partially red brown ironstaining.											
6			(76) 100			MW									Is (50) = 0.22MPa	x
7			(100) 100											Is (50) = 0.34MPa	x	
8			(90) 100											Is (50) = 0.52MPa	x	
9														Is (50) = 0.69MPa	x	
10																

REMARKS : \*See the attached list for defect descriptions.

LOGGED BY  
DISS



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DEPTH (m)	R.L. (m)	UGER CORE DRILLING OTHER	RQD (%) CORE REC%	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH				DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
							EH	VH	H	M				
10	10.71				MW TUFF As above..									
			(92) 100										11.30Mpa	IICS
11														
12			(95) 100										Is (50) = 0.41MPa	x
13			(13) 75			MW							Highly weathered band.	
14													Is (50) = 0.13MPa	x
15			(48) 100										Is (50) = 0.31MPa	x
16	4.26		(98) 100			SW							Is (50) = 0.24MPa	x
17	3.61		(100) 100		HW TUFF Frequent corestones and rock kernels throughout.	HW							Is (50) = 0.09MPa	x
END OF HOLE														
18														
19														
20														

REMARKS :

LOGGED BY  
DISS

## DEFECT DESCRIPTIONS OF BORELOGS

[FOR GEOTECHNICAL TERMS AND SYMBOLS]

REFER FORM BQF 075:191/95]

BOREHOLE NO :	232
SHEET :	1 of 2
REFERENCE NO :	H8170

PROJECT	SOUTH EAST TRANSIT PROJECT - SECTION 2		
LOCATION :	4118.433E	162077.128N	
PROJECT NO :	C60117	SURFACE : 20.71	DRILLER : DALY BROTHERS PTY LTD
		R.L	
JOB NO :	650302CN	DATUM : AHD	DATE : 2/12/97
			DRILLED

DEPTH	DEFECT TYPE	DIP(Degree)	PLANARITY	ROUGHNESS	APERTURE	WALL ALTERATION	OTHER
1.5	J	45	Ir	R			P,CI
1.72	J	45	Ir	R			Cn
-1.89	J		Ir	R			
2.22	J	45					
2.25	J	45	Ir	R			CI
4.3	J	20	Ir	R			
4.35	J	85		R			CI
4.4	J	50	Ir				O,CI
5.8	J	40				PFeSt	CI
6.56	J	60		R		T	
7.25	J		Ir	R			O,CI
7.75	J		Ir	R			CI
7.9	J	45	Ir	R			CI
9.32	J	60	Pl	Sm			Cn
9.45	J	55				T,PFeSt	
9.57	J	45		R	O		Cn
11.15	J	60	Ir	R			Cn
11.87	J	60	Ir	R			
12.12	J	45	Ir		O	PFeSt	
12.3	J	45	Ir			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
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	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 Borelogs.

## DEFECT DESCRIPTIONS OF BORELOGS

[FOR GEOTECHNICAL TERMS AND SYMBOLS

REFER FORM BQF 075:191/95]

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LOCATION :	4118.433E	162077.128N	
PROJECT NO :	C60117	SURFACE : 20.71	DRILLER : DALY BROTHERS PTY LTD
		R.L.	
JOB NO :	650302CN	DATUM : AHD	DATE : 2/12/97
			DRILLED

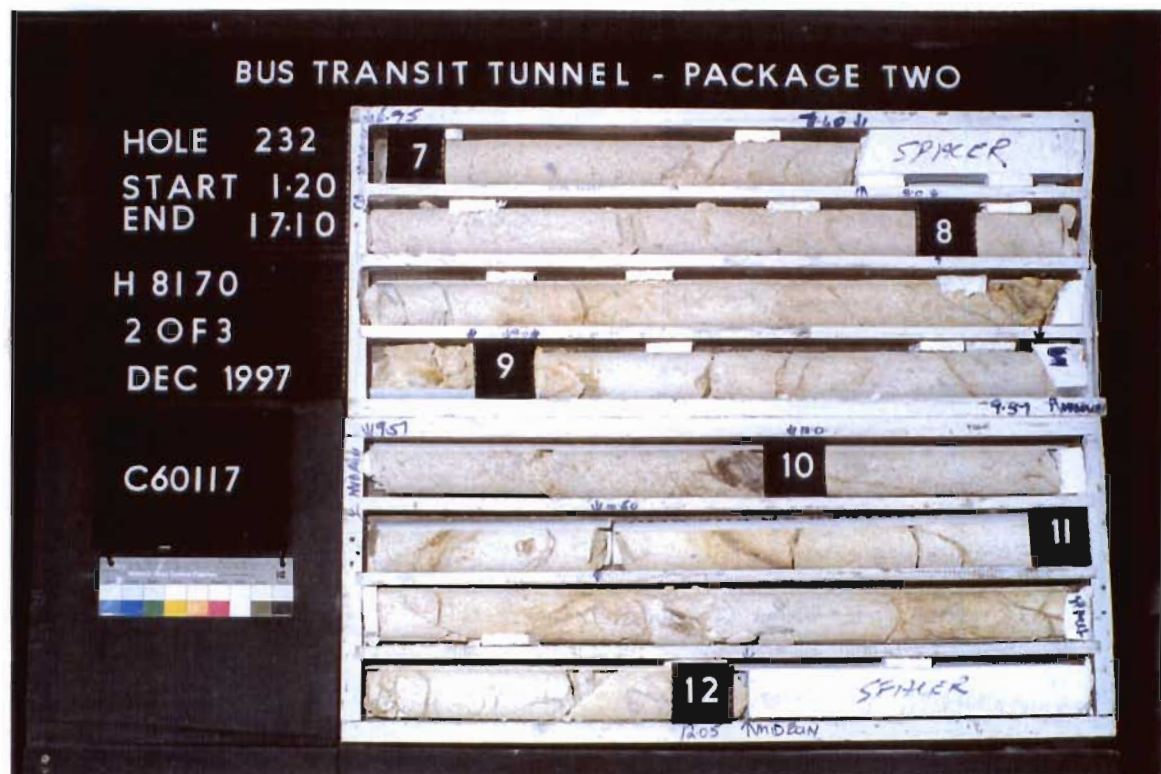
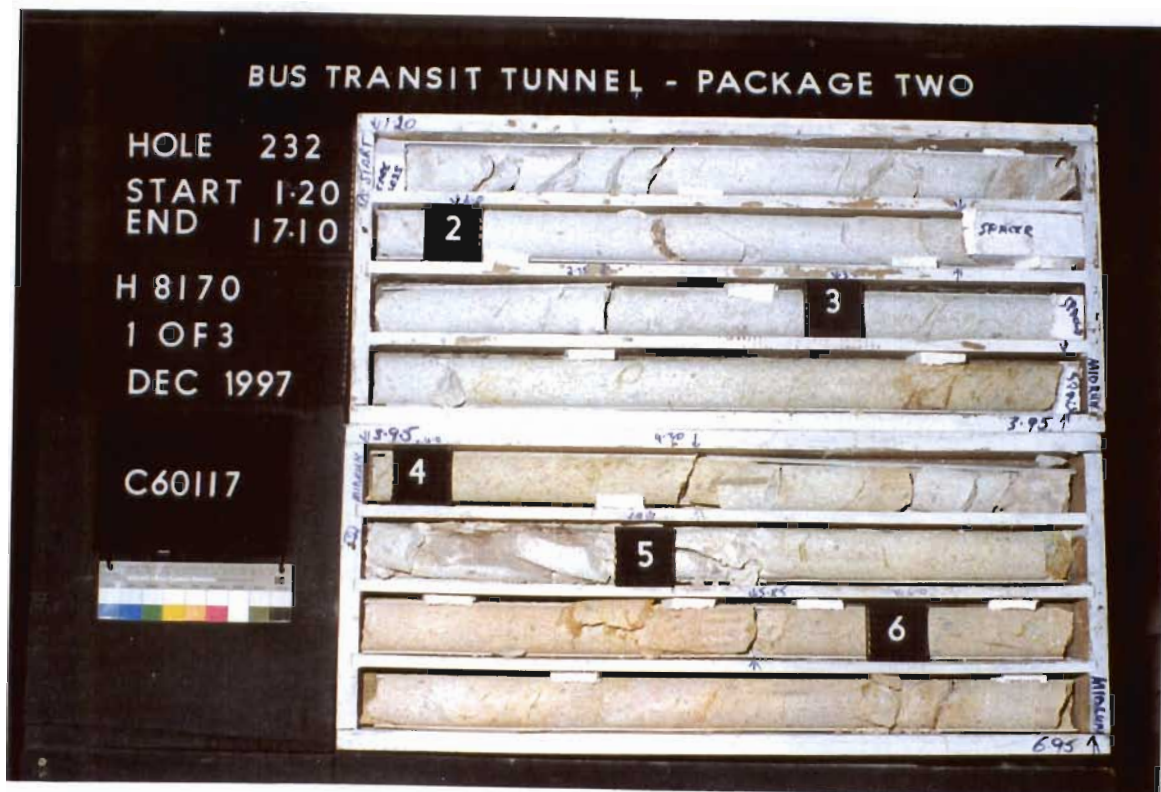
DEPTH	DEFECT TYPE	DIP(Degrees)	PLANARITY	ROUGHNESS	APERTURE	WALL ALTERATION	OTHER
12.4	J	45			T		Cn
12.82	J	45	lr				Cn
13.3	J		lr	R	O		Cn
13.38	J	45	lr	R	O		
13.5	J	45		Sm			CI
13.65	J	45	lr		O		
13.7	J		lr		T		CI
13.8	J	25	lr	R			Cn
14.8	J	45	lr		O		Cn
14.9	J	45		Sm	T		Cn
15.06	J			R			H,Cn
15.13	J	35	lr		T		Cn
15.26	J	45			T	PFeSt	
15.5	J	45	lr				Cn
15.55	J	45		Sm			Cn
15.92	J	20			T		Cn
16	J	45		R			Cn
16.17	J	45					CI
16.3	J	45		R			H
16.37	J	45		R			
16.8	J	45			T	FeSt	
17.08	J	45			T	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			BP	Bedding Parting	Co	Completely
				F	Foliation	In	Incipient
				SZ	Sheared Zone	SI	Sand Infil
PLANARITY		APERTURE		WS	Weathered Seam	H	Horizontal
Pl	Planar	C	Closed	CZ	Crushed Zone	V	Vertical
St	Stepped	O	Open	SM	Secondary	CI	Clay Infill
Un	Undulating	F	Filled	BZ	Broken Zone	Cn	Clean
Cu	Curved	T	Tight	HFZ	Highly Fractured Zone		
lr	Irregular						

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

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BUS TRANSIT TUNNEL - PACKAGE TWO

HOLE 232  
START 1:20  
END 17:10

H 8170  
30F3  
DEC 1997

C60117

