

COPYRIGHT NOTICE

This geotechnical log and its associated data (the Document) is licensed by the Queensland Department of Transport and Main Roads under the [Creative Commons Attribution 4.0 Licence](#) (CC BY 4.0). When reusing the Document, in whole or in part, please attribute the Department as follows: "*(c) State of Queensland (Department of Transport and Main Roads) 2020, licensed under the CC BY 4.0 Licence*". This licence does not apply to the Queensland Government logo or trademarks.

LIMITATION OF LIABILITY

The CC BY 4.0 Licence contains a comprehensive Disclaimer of Warranties and Limitation of Liability. In addition, please note that this Document was prepared for Departmental use only. Reuse of the Document by anyone for any other purpose could result in error and/or loss. You should obtain professional advice before making decisions based on the contents of the Document.

When reproducing any part of this Document, you must also reproduce this limitation of liability notice in addition to the italicised attribution statement above.

Retrieved from the Queensland Geotechnical Database <http://qgd.org.au/>

ENGINEERING BORELOG

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

BOREHOLE No : 233
 SHEET : 1 OF 2
 REFERENCE No : H8171

PROJECT : SOUTH EAST TRANSIT BUS LANE PROJECT - SECTION 2
 LOCATION : 4146.524E 162049.403N
 PROJECT No : C60117 SURFACE R.L. : 17.63 DRILLER : DALY BROTHERS PTY LTD
 JOB No : 650302CN DATUM : AHD DATE DRILLED : 24/11/97

DEPTH (m)	R.L. (m)	RQD (%)	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS	
										USC
0	17.63		FILL Yellow brown, moist, soft to firm mixture of cobble, gravel, clayey silt.	GW				Driller's log only		
17.13			XW TUFF Exhibits engineering properties of brown dry, hard silty clay.	XW				30/135 N=>50		
16.15			HW TUFF Gery brown to yellow brown, frequent corestones and rock kernels.	HW						
14.60		78	MW TUFF Red-brown ironstaining throughout.	MW						
12.36		(50) 95						6.34Mpa	UCS	
11.25		(74) 100	SW TUFF Pale brown to grey brown; red-brown ironstaining mainly concentrated into defects.	SW				Is (50) = 0.28MPa	x	
		(78) 100						Is (50) = 0.73MPa	x	
		(95) 100						Is (50) = 2.39MPa	x	
		(99) 100						Is (50) = 1.00MPa	x	
								Is (50) = 1.18MPa	x	
								Is (50) = 1.05MPa	x	
								26.8Mpa	UCS	
10								Broken zone		

REMARKS : **DEFINITION FOR TUFF : GREY TO GREEN GREY, FINE TO COARSE GRAINED MASSIVE PYROCLASTIC ROCK. PORPHYRITIC TEXTURE**

LOGGED BY
DISS



ENGINEERING BORELOG

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

BOREHOLE No : 233

SHEET : 2 OF 2

REFERENCE No : H8171

PROJECT : SOUTH EAST TRANSIT BUS LANE PROJECT - SECTION 2
 LOCATION : 4146.524E 162049.403N
 PROJECT No : C60117 SURFACE R.L. : 17.63 DRILLER : DALY BROTHERS PTY LTD
 JOB No : 650302CN DATUM : AHD DATE DRILLED : 24/11/97

DEPTH (m)	R.L. (m)	AUGER CORE DRILLING CORE DRILLING CASING OTHER	RQD (%) CORE REC%	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING EH VH HM LV	INTACT STRENGTH	DEFECT SPACING (mm) 20 60 200 600 2000	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
10	7.63				MW TUFF Pale green; porphyritic texture; occasional phenocrysts.					Is (50) = 0.52MPa	x
11			(91) 100							Is (50) = 0.75MPa	x
12			(97) 100							Is (50) = 0.14MPa	x
13			(100) 100			MW				Is (50) = 0.19MPa	x
14	3.83				Pale brown to green brown, red-brown ironstaining mainly concentrated along defects.					Is (50) = 0.41MPa	x
15	3.13		(100) 100							Is (50) = 0.21MPa	x
16	1.63		(78) 100							Is (50) = 0.21MPa	x
					END OF HOLE						
17											
18											
19											
20											

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 : 233

SHEET : 1 of 2

REFERENCE NO : H8171

PROJECT	SOUTH EAST TRANSIT PROJECT - SECTION 2		
LOCATION :	4146.524E	162049.403N	
PROJECT NO :	C60117	SURFACE R.L. :	17.64
JOB NO :	650302CN	DATUM :	AHD
		DRILLER :	DALY BROTHERS PTY LTD
		DATE DRILLED :	24/11/97

DEPTH	DEFECT TYPE	DIP(Degrees)	PLANARITY	ROUGHNESS	APERTURE	WALL ALTERATION	OTHER
5.8	J		Ir	R	T	PFeSt	
6.06	J		Ir		T	CFeSt	
6.14	J	60		R			Cn
-6.3	J	45	Pl			PFeSt	
6.52	J	35	Pl				CI
6.61	J	10	Ir		T	CFeSt	
6.7	J		Ir	R		PFeSt	H
6.8	J	45	Ir	R		CFeSt	
6.92	J	25	Ir			CFeSt	
8	J	22	Ir			PFeSt	
8.4	J					CFeSt	H
8.65	J	20	Ir			PFeSt	Cn
9.04	J	75	Ir	R		CFeSt	
9.17			Ir			CFeSt	H
9.3		15		R		CFeSt	
9.78		15	Ir			PFeSt	
11		10	Ir				Cn
11.38		45	Ir				35mm CI
14.5			Ir	R		CFeSt	

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
PLANARITY		APERTURE		WS	Weathered Seam	H	Horizontal
Pl	Planar	C	Closed	CZ	Crushed Zone	V	Vertical
St	Stepped	O	Open	SM	Secondary Mineralisation	CI	Clay Infill
Un	Undulating	F	Filled	BZ	Broken Zone	Cn	Clean
Cu	Curved	T	Tight	HFZ	Highly Fractured Zone		
Ir	Irregular						

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

DEFECT DESCRIPTIONS OF BORELOGS

[FOR GEOTECHNICAL TERMS AND SYMBOLS]

REFER FORM BQF 075:191/95]

BOREHOLE NO :	233
SHEET :	2 of 2
REFERENCE NO :	H8171

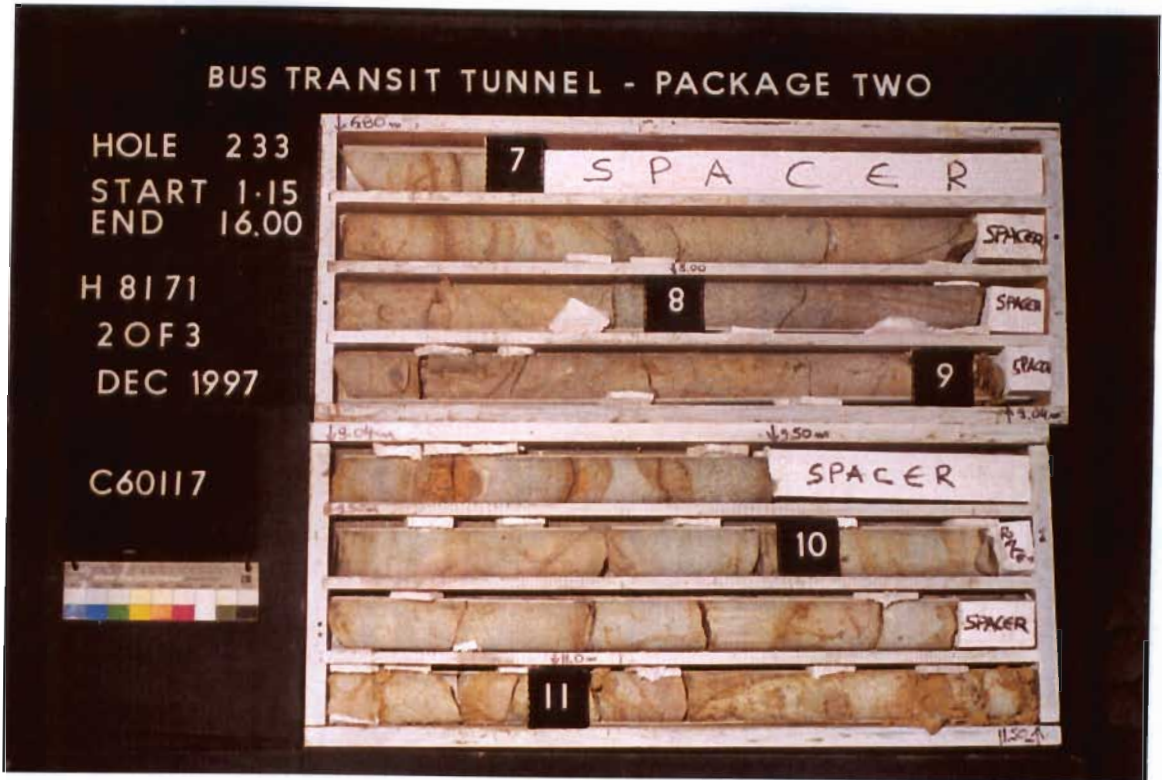
PROJECT :	SOUTH EAST TRANSIT PROJECT - SECTION 2		
LOCATION :	4146.524E	162049.403N	
PROJECT NO :	C60117	SURFACE R.L. :	17.64
JOB NO :	650302CN	DATUM :	AHD
		DRILLER :	DALY BROTHERS PTY LTD
		DATE DRILLED :	24/11/97

DEPTH	DEFECT TYPE	DIP(Degrees)	PLANARITY	ROUGHNESS	APERTURE	WALL ALTERATION	OTHER
14.6	J		Ir			CFeSt	H
14.78	J		Ir	R		CFeSt	
14.8	J		Ir	R		CFeSt	
14.84	J	45	Ir		T	CFeSt	
14.94	J	40				CFeSt	CI
14.98	J	20	Ir			PFeSt	
15.23	SM					CFeSt	
15.57	J	10	Ir	R		CFeSt	CI

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
PI	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 233
START 1.15
END 16.00

H 8171
3 OF 3
DEC 1997

C60117



SOUTH EAST TRANSIT PROJECT, SECTION 2

WATER PRESSURE TEST RESULTS

2 LUGEONS

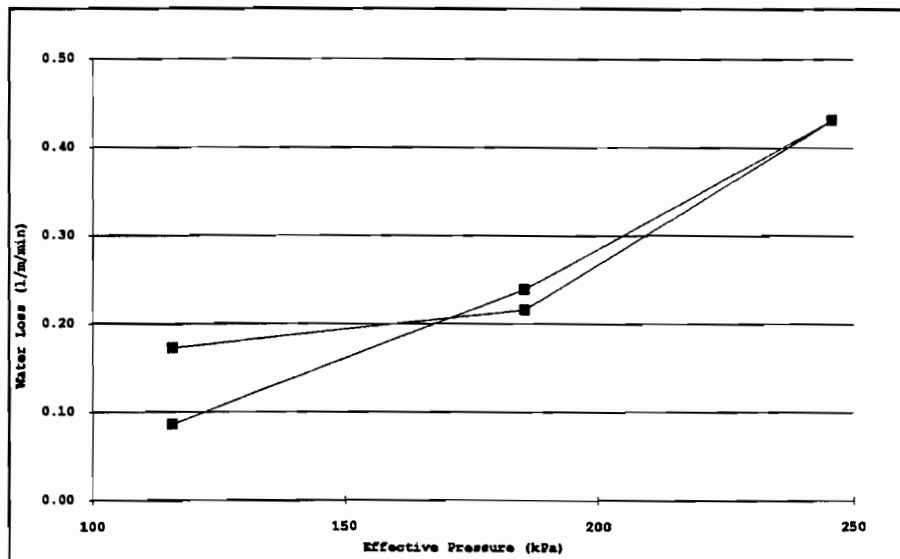
Drill Hole: 233
 Test No: 1

Date: 24/11/97

Test Section: From (m) 7.9 To (m) 13 Length (m) 5.1

Groundwater Depth (m): 5.27
 Gauge Height (m): 1.3
 Hydrostatic Head (kPa): 65.7

Gauge Pressure (kPa)	Effective Pressure (kPa)	Test Duration (min)	Meter Start (litres)	Meter End (litres)	Water Loss (litres)	Leakage (l/m/min)	Lugeons
50	115.7	5	900.5	904.9	4.4	0.17	1.49
120	185.7	5	1003.6	1009.1	5.5	0.22	1.16
180	245.7	5	1020	1031	11	0.43	1.76
120	185.7	5	1053	1059.1	6.1	0.24	1.29
50	115.7	5	1140	1142.2	2.2	0.09	0.75



SOUTH EAST TRANSIT PROJECT, SECTION 2

WATER PRESSURE TEST RESULTS

1 LUGEONS

Drill Hole: 233
Test No: 2

Date: 24/11/97

Test Section: From (m) To (m) Length (m)
 1.00 4.00 3.00

Groundwater Depth (m): 5.27
Gauge Height (m): 1.63
Hydrostatic Head (kPa): 41.3

Gauge Pressure (kPa)	Effective Pressure (kPa)	Test Duration (min)	Meter Start (litres)	Meter End (litres)	Water Loss (litres)	Leakage (l/m/min)	Lugeons
50	91.3	5	21.4	21.4	0	0.00	0.00
120	161.3	5	21.5	24.1	2.6	0.17	1.07
180	221.3	5	30.4	35.6	5.2	0.35	1.57
120	161.3	5	45.9	48.3	2.4	0.16	0.99
50	91.3	5	53.8	53.8	0	0.00	0.00

