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ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/5-2009

BOREHOLE No	BH052
SHEET	_1_ of _1_
REFERENCE No	H10621

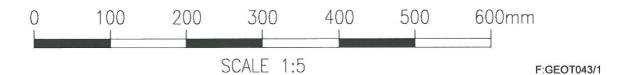
PROJECT			0. 000				Y (COOROY - CURRA) SECTION A GEOTI					<u>ATION</u>		ORDINATES 483048.8 E; 7080996.1	 N
LOCATION							SURFACE R.L					ARTED			
							HEIGHT DATUM _AHD BEARING							경시	
JOB No	-	_!	20	/ <u>1</u> 0 <i>F</i>	<u> </u>		HEIGHT DATOM _AND _ BEAKING _		_		DATE COM		1000		
R.L. (m)		RQD ON ()% MATERIAL ORD ON HITTORY ON				LITHOLOGY		WEATHERING	INTACT DEFECT SPACING (mm)		GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES		
0 114.7	0		TT	K	EC 76	0,	Clayey SILT Mottled brown, moist, firm. Intermediate plasticity; traces of plant				**************************************			200	-
-1						A	material.			OL- IL)	#			3,2,3 N=5	SPT :
113.2	20					В	PHYLLITE (XW) Generally exhibits the engineering properties of pale grey to brown, moist, very stiff to hard, gravelly SILT.	**********	×	:w				2,7,12 N=19	SPT
112.2						С	PHYLLITE (HW) Generally exhibits the engineering properties of grey, dry, hard, gravelly SILT.	*******	H	IW		-		15,28,30/135 N>50	SPT
-					(0) 100		PHYLLITE (MW) Grey to brown-grey, fine grained.	****						Is(50) = 0.17MPa	x
					(0)		Foliations generally dipping 20°-25°	***							-
-4					100		Defects generally close to medium spacing Defects typically dipping along foliation and at 70°. Defect surfaces iron stained and clay coated.	}	11111					- Fractured zone, clay lining	1
-5					100			} }}}}}	11111111111					— Clay seam Is(50) = 0.12MPa	x -
6				_	(35)		Detailed defect descriptions shown on	} }}}}}		/IVV			***	Is(50) = 0.21MPa	x -
					100		Form GEOT 335/8 attached.	333333333	******					Is(50) = 0.23MPa	x
-7 - - - -					(95)			3333333333	********					Is(50) = 0.48MPa	x _
8 8	50				100			**						Is(50) = 0.65MPa	х -
9	50				100		Borehole terminated at 8.2m								
REMAF	RK	s	Det	taile	d defe	ct de	escriptions are shown on Form GEOT533/8 attac	hed.						LOGGED BY AN	

Project: <u>Bruce Highway Upgrade (Cooroy - Curra) Section A</u>

Borehole No: BH52
Start Depth: 3.00m
Finish Depth: 8.15m
Project No: FG5825

Project No: FG582 H No: 10631





GEOTECHNICAL BRANCH LABORATORY

Materials Services - Brisbane 35 Butterfield Street, HERSTON Q 4006 Phone: (07) 3115 3035 Fax: (07) 3115 3011



DEFECT DESCRIPTIONS OF ENGINEERING BORELOGS

[CHARACTERISATION OF DEFECTS ARE IN ACCORDANCE WITH ISRM SUGGESTED METHODS (1981)]

BOREHOLE NO.: BH52

SHEET: 1 of 2

REFERENCE NO.: H10631

PROJECT: Bruce Highway (Cooroy – Curra) Section A Geotechnical Investigation

LOCATION: Cut 18

PROJECT NO.: FG5825 SURFACE R.L.: 114.7 DRILLER: Geodrill

JOB NO.: 128/10A/901 DATUM: MGA94 DATE DRILLED: 17/08/09

DEPTH	DEFECT TYPE	DIP°	PLANARITY	ROUGHNESS	APERTURE	WALL ALTERATION	OTHER
3.0-3.1	BZ						
3.2	J	20	PI	S	0	FeSt	
3.27	J	30	PI	S	0	Cn	
3.31	J	30	PI	S	0	Cn	
3.42	J	20	PI	SR	0	FeSt	
3.47	J	80	Pl	SR	0	FeSt	100mm Thick
3.57	J	50	Pl	SR	0	FeSt	
3.64	J	45	Pl	S	0	FeSt	
3.64	J	90	Pl	S	0	Cn	150mm Long
3.74	J	30	PI	S	0	Cn	
3.87	J	70	Pl		С	Cl	
4.0	J	40	PI		С		
4.04-4.5							Clay Seam
4.17	J	60	PI		С	CI	
4.28	J	40	PI		С	CI	
4.38	J	60	PI		С	CI	
4.46	J	30	lr	R	0	FeSt	
4.5-4.55	WS						Clay Seam

Abbreviations (as per F: GEOT 017/5 - 2009)

	ROUGHNESS		WALL ALTERATIONS		TYPE		OTHER		
R	Rough	FeSt	Iron Stained	J, Js	Joint, Joints	CI	Clay Infill		
Sr	Slightly Rough	W	Weathered	В	Bedding	CLy	Clayey		
S	Smooth	Smn	Secondary Mineralisation	BP	Bedding Parting	Co	Coal Seam		
SL	Slickensided	Cn	Clean	FP	Foliation Parting	Carb	Carbonaceous		
PO	Polished	MnSt	Manganese Stained	LP	Lamination Parting	SI	Sand Infill		
	PLANARITY		APERTURE		Cleavage	QZ	Quartz		
PI	Planar	С	Closed	Fr	Fracture	CA	Calcite		
St	Stepped	0	Open	SZ	Sheared Zone	Chl	Chlorite		
Un	Undulating	F	Filled	CZ	Crushed Zone	In	Incipient		
Cu	Curved	T	Tight	BZ	Broken Zone	Int	Intersecting		
fr	Irregular			HFZ	Highly Fractured Zone	Lam (s)	Lamination (s)		
				WS	Weathered Seam	Di	Drilling Induced		
				Vn	Vein	Н	Horizontal		
						V	Vertical		

NOTE: This sheet should be read in conjunction with appropriate Engineering Borelog. Defect angles were measured with respect to horizontal plane.

 BOREHOLE NO.:
 BH52

 SHEET:
 1 of 2

REFERENCE NO.: H10631

DEPTH	DEFECT TYPE	DIP°	PLANARITY	ROUGHNESS	APERTURE	WALL ALTERATION	OTHER
4.6	J	30	PI	SR	0	FeSt	
4.84	J	50	PI		С	CI	
4.89	j	30	PI		С		
4.93	J	30	PI		С		
5.0	J	20	PI		С		the state of the s
5.02	J	30	PI		С	CI	
5.10	J	65	PI		С	FeSt	
5.29	J	10	PI	S	0	CI	
5.31	J	10	PI	S	0	FeSt	
5.4	J	20	PI	S	0	FeSt	
5.5	J	20	PI	S	0	FeSt	
5.57	j	20	PI	S	0	FeSt	
5.68	J	20	PI	S	0	FeSt	
5.8-5.94	WS						Gravely Clay Sean
5.98	J	10	PI	S	0	FeSt	
6.00	J	15	PI	S	0	FeSt	
6.04	J	10	Pl	S	0	FeSt	
6.21	J	20	PI	R	0	MnSt	
6.28	J	10	PI	SR	0	MnSt	
6.32	J	40	PI	SR	0	MnSt	
6.42	J	20	Pl		С	MnSt	
6.46	J	20	Pl		С	MnSt	
6.66	J	10	Pl	SR	0	FeSt, CI	
6.70	J	20	PI	S	0	FeSt	
6.76	J	10	PI	S	0	FeSt	
6.87	J	10	Pl	SR	0	MnSt	
7.00	J	20	lr .	R	0	MnSt	
7.10	J	30	PI	SR	0	MnSt	
7.30	J	20	Pl	S	0	MnSt	
7.36	J	30	PI	R	0	MnSt	
7.63	J	70	PI	S	0	FeSt	150mm Long
7.80	J	65	PI	SR	0	FeSt	
8.00	J	45	1r	R	0	MnSt	
8.09	J	10	PI	SR	0	MnSt	