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ENGINEERING BOREHOLE LOG

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

 BOREHOLE No
 BH087

 SHEET
 1 of 3

 REFERENCE No
 H10715

CATION	BRUCE HIGHV Six Mile Creek		coc	COORDINATES 489379.2 E; 7078102.5 N					
		SURFACE R.L. <u>108.92m</u> PLUNGE				TARTED _			
B No	_128/10A/901 _	_ HEIGHT DATUM <u>AHD</u> BEARING			DATE COM	IPLETED _	6/4/10	DRILLER R & D Drilling	
R.L. (m)	AUGER CASING CORE DRILLING CORE DRILLING SAMPIF	MATERIAL DESCRIPTION	LITHOLOGY	USC	INTACT STRENGTH 플子그물그렇니	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES
108.92	₹3≷8 REC % 8	Sandy CLAY (Alluvial) Red to brown, moist, very stiff, fine grained. Occasional quartz gravels up to 10mm.	ח) S			Ø		S
	A			(CL)				LL = 40.8; PI = 19.2; LS = 10.2	U
106.22	В							LL = 42.4; PI = 18.8; LS = 9.8	L
		Clayey SAND (Alluvial) Brown, moist, very stiff, sand fraction, fine to medium grained.		(SC)				LL = 36.6; PI = 14.6; LS = 7.4	ι
104.92		Sandy Silty CLAY (Alluvial) Mottled brown, moist, firm to stiff, low plasticity. Sand fraction fine grained.		(CL- CI)			-+-	3,2,4 N=6	
103.92	E	Silty Sand and Gravel (Alluvial) Grey-brown, wet, loose. Sand fraction is fine to medium grained with fine to medium grained gravel.		(SM)				1,3,5 N=8	
102.92	F	Silty CLAY (Alluvial) Dark grey- pale grey, moist, stiff to very stiff, medium to high plasticity. Contains fine grained sand and occasional						3,4,7 N=11	
	G	coarse grained quartzitic gravel.		(CI- CL)				3,7,11 N=18	· ·
100.92	Н	SANDSTONE (XW): Generally exhibits engineering properties of mottled yellow brown-grey, dense to very dense clayey sand.		xw				11,18,28 N=46	
99.92		SANDSTONE (MW): Grey brown, fine grained, very thickly bedded, mainly low to medium strength, contains interbeds of Siltstone and Claystone.		MW			. — ↓	- Claystone	L
	<u> </u>							LOGGED BY	_



ENGINEERING BOREHOLE LOG

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

				AY (COOROY - CURRA) SECTION A GEOT	<u>EC</u>	HNIC	AL INVESTIGATION			
				CUREACE DI 400.00 DIUNOS					OORDINATES 489379.2 E; 7078102	.5 N
JOB No				SURFACE R.L108.92m PLUNGE					4/10 GRID DATUM MGA94	
JOB NO	_120/_	ION/90		HEIGHT DATUM _AHD BEARING _			DATE COMPLETED	06/04	4/10 DRILLER R&D Drilling	<u>q_</u> _
10 98.92	AUGER CASING WASH BORING CORE DRILLING	RQD ()%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	INTACT DEFECT SPACING (mm) UNITED TO THE PROPERTY OF THE PR	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES
98.77	11			SANDSTONE (MW): (cont'd)	-	MV				-
-11 -12 -96.72 -13		100		SANDSTONE (HW/MW): Grey to Dark grey, medium grained, laminated, low strength. 10.5-10.8m: Contains thinly laminations of black carbonaceous material. Defect spacing is generally close to medium. Prominant defect set is bedding partings dipping at ~5°, very widely spaced joint set dipping at 50°. Defect surfaces are generally clean. SANDSTONE (MW): Yellow brown to grey, fine grained, very thickly bedded, mainly low to medium strength.		HW			— - becoming coarse grained	-
				Defect spacing is generally wide.						
- 13		100		Prominant defect set is bedding partings dipping at ~5°, very widely spaced joint set					UCS = 3.20 MPa	U
				dipping at 45°. Defect surfaces are generally clean.						
15		100				MW			Is(50) = 0.09MPa Is(50) = 0.14MPa	
							UCS = 1.69 MPa	υ		
16		100							Jt @ 45°X 4, ST, PI, C, O	
17									Medium grained Sandstone	
117 118 90.62		85	X						Core loss possible XW layer or fractured zone	
90.02		100		CONGLOMERATE (MW): Mottled grey brown, fine to coarse grained, massive, mainly low strength.		NW.			XVV	
89.42		100		Defect spacing is generally medium to wide. Defect surfaces are irregular, rough, clean and open.	NS	MW			Is(50) = 0.08MPa Is(50) = 0.03MPa	;
20		100		SANDSTONE (MW): Mottled grey, coarse grained, bedded, low strength.		MW		+	UCS = 0.25 MPa — - Bedding partings @ 5°	U
REMARKS.			_						LOGGED BY	_
									SG	



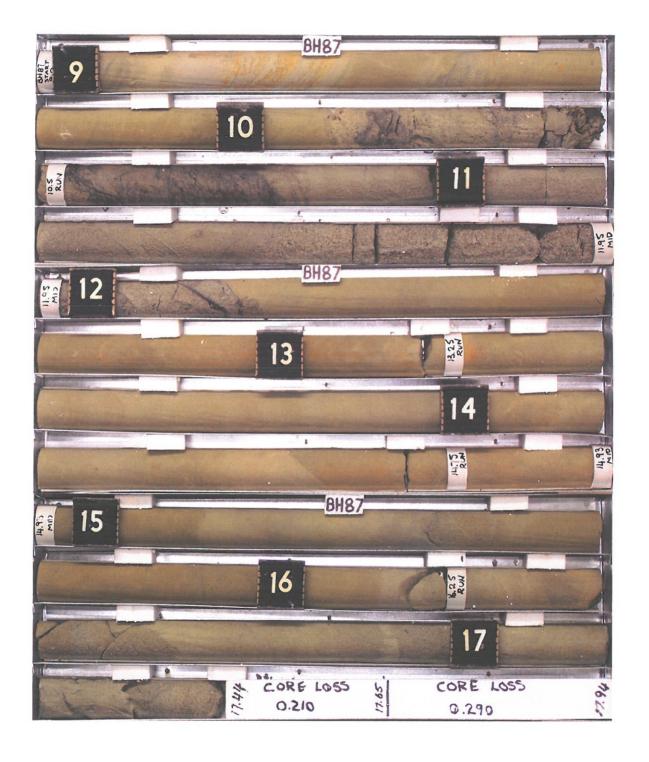
ENGINEERING BOREHOLE LOG

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

	RUCE HIGHV	VAY (COOROY - CURRA) SECTION A GEOT		
		SURFACE R.L. 108.92m PLUNGE	DATE STARTED	COORDINATES 489379.2 E; 7078102.5
JOB No _12	28/10A/901	HEIGHT DATUM AHD BEARING	DATE COMPLETED	06/04/10 DRILLER R&D Drilling
20 88.92 P S S S S S S S S S S S S S S S S S S	WASH BORING WASH		LITHOLOGY CHAPTER IN COMMUNICATION COMMUNICA	T T
88.72	-	Defects as above. SANDSTONE (MW):(Contd)	MW	
-21	100	MUDSTONE (MW): Pale grey to mottled red brown, thickly bedded, mainly low strength. Defect spacing is generally medium to		
		wide. Defect surfaces are planar, smooth, open, clean or sand and gravel infilled. Iron stained in parts; displays cracking		
22	100	upon drying.		UCS = 0.23 MPa ls(50) = 0.05MPa
3			MW	Jt @ 45°, PI, S, O with sand and gravel infilled.
	100			
84.52				— - Jt @ 45° PI, S, O, C.
84.12	100	SANDSTONE (MW): Pale grey, fine grained, low to medium strength.	MW	Is(50) = 0.43MPa Is(50) = 0.12MPa UCS = 5.89 MPa
6				
REMARKS			1 ‡	LOGGED BY
				SG

Project: Bruce Highway Upgrade (Cooroy - Curra) Section A

Borehole No: BH 87
Start Depth: 9.00m
Finish Depth: 24.71m
Project No: FG5825
H No: 10715





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

Borehole No: BH 87
Start Depth: 9.00m
Finish Depth: 24.71m
Project No: FG5825
H No: 10715

