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ENGINEERINGBOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/3-2005

BOREHOLE No	BHP09
SHEET	_ <u>1</u> _ of _ <u>3</u> _
REFERENCE No	H9918

ESTUARINE SILTY CLAY Dark grey, moist, very soft. (OH) Dark grey, moist, very soft. (Cliffer's records only.) ALLUVIAL SILTY CLAY Pale grey to mottled yellow brown, moist, firm. High plasticity. ALLUVIAL SILTY CLAY Pale green grey to mottled orange brown, moist, stiff to mainly very stiff. Occasional lateritic and concreted zones; medium to high plasticity. G G GCI-CH DH _F = 7.62 PH _F = 7.69 Geotechnical Laboratory SPT ALLUVIAL SILTY CLAY Pale green grey to mottled orange brown, moist, stiff to mainly very stiff. Occasional lateritic and concreted zones; medium to high plasticity. G G DH _F = 7.55 ST ASS Sample stored at Herston Geotechnical Laboratory SPT ASS Sample stored at Herston Geotechnical Laboratory DH _F = 6.68 PH _{FCX} = 6.36 DH _{FCX} = 6.36 DH _F = 6.68 PH _{FCX} = 6.36 DH _{FCX} = 7.51 DH _{FCX} = 6.36 DH _{FCX} = 7.51 DH _{FCX} = 6.36 DH _{FCX} = 7.51 D		_				SHWAY BRIDGE DUPLICATION - HOUGHT									
Second S															TUM
Characteristics	JOB	No <u>1</u>	<u>65/1</u>	22/35		HEIGHT DATUM <u>AHD</u> BEARING _			DATE COMPL	ETED _0	<u>8/06</u>	<u>/06</u>	DRILLER	<u>CAIRNS DRIL</u>	LING_
A A Dark gray, moist of markly wet, vary loose to loose. Fine grained sand becoming loose below 2.3m, slightly organic throughout, some parity decomposed shall fragments.	\perp	R.L. (m) SNG ON SV -0.75		()%	SAMPLE	DESCRIPTION	LITHOLOGY	USC			GRAPHIC LOG		AND	LT\$	SAMPLES TESTS
D	1		,			Dark grey, moist to mainly wet, very loose to loose. Fine grained sand becoming loose below 2.3m; slightly organic throughout; some						_ ρH _{FOX} = 6	.09	N=2 ASS Sample stored at Herston Geotechnical Laboratory HW,1,2	
Characteristics Characteri												pH _F = 7.7	.98 8	4,5,3	
ESTUARINE SILTY CLAY Dark grey, moist, very soft. (OH) Dark grey, moist, very soft. (Cliffer's records only.) ALLUVIAL SILTY CLAY Pale grey to mottled yellow brown, moist, firm. High plasticity. ALLUVIAL SILTY CLAY Pale green grey to mottled orange brown, moist, stiff to mainly very stiff. Occasional lateritic and concreted zones; medium to high plasticity. G G GCI-CH DH _F = 7.62 PH _F = 7.69 Geotechnical Laboratory SPT ALLUVIAL SILTY CLAY Pale green grey to mottled orange brown, moist, stiff to mainly very stiff. Occasional lateritic and concreted zones; medium to high plasticity. G G DH _F = 7.55 ST ASS Sample stored at Herston Geotechnical Laboratory SPT ASS Sample stored at Herston Geotechnical Laboratory DH _F = 6.68 PH _{FCX} = 6.36 DH _{FCX} = 6.36 DH _F = 6.68 PH _{FCX} = 6.36 DH _{FCX} = 7.51 DH _{FCX} = 6.36 DH _{FCX} = 7.51 DH _{FCX} = 6.36 DH _{FCX} = 7.51 D	GLB 25/10/05				D								5	2,3,3 N=6	SPT
The state of the s	Σ -		П					(OF	 	+		pH _F = 7.6	<u></u>	 stored at 	JAR
REMARKS LOGGED BY	HWAY BRIDGE.GR				E	(Driller's records only.) ALLUVIAL SILTY CLAY Pale grey to mottled yellow brown, moist, firm. High plasticity.			† -			$\rho H_e = 6.7$	4	-Geotechnical- Laboratory RW,3,4	Transaction of
REMARKS LOGGED BY	KENOLE LUG W LI HOLOGY 763423 HK				F	Pale green grey to mottled orange brown, moist, stiff to mainly very stiff. Occasional lateritic and concreted zones;		С С С Н						N=17 ASS Sample stored at Herston Geotechnical	SPT
		-10.75			G				1						SPT
1	RI	EMARKS _		-								. [OGGED BY	



ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/3-2005

BOREHOLE No	BHP09
SHEET	_ <u>2</u> _ of _ <u>3</u> _
REFERENCE No	H9918

PRO.					HWAY BRIDGE DUPLICATION - HOUGHT STH FROM EASTN PILE OF PIER 9 OF EX	-					38978.5	E; 52152.9 N	- -
					SURFACE R.L0.75 PLUNGE								
JOB I					HEIGHT DATUM <u>AHD</u> BEARING							CAIRNS DR	
DEPTH (m)	R.L. (m)	CASING WASH BORING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH SPACING (mm) ##################################	GRAPHIC LOG		DITIONAL D AND EST RESUL		SAMPLES
- 10	-10.70				ALLUVIAL SILTY CLAY			+	_				1
7 71					(As above.)								
- 12				Н				+ + + + + + + + + + + + + + + + + + +				3,6,8 N=14	
- - 13 - -								+ + + + + + + + + + + + + + + + + + +					
- 14 - 14 15							(CI- CH)	† † † † † † †					
- 16			ia	J				+ + + + + + + + + + + + + + + + + + +				4,7,10 N=17	SPT
- - - - - - - - - -	10.55												-
- 18 - 18 	-18.55		20	К	ALLUVIAL GRAVELLY SAND Pale grey to pale grey brown, wet, medium dense. (Fine fraction > Coarse fraction)		(SP)		 			6,8,9 N=17	SPT
- - 19 - - - - -	-19.55 -20.55				Fine fraction - Medium to coarse grained sand with some clay. Coarse fraction - Subangular to subrounded quartz particles sizing upto 25mm. ALLUVIAL SILTY CLAY (Driller's record only.)		(CI)	-				•	
20	-20.75				ALLUVIAL GRAVELLY SAND		(SP)						
RE	MARKS									-		OGGED BY W / ADISS	
										.			



ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/3-2005

BOREHOLE No	BHP09
SHEET	_3_ of _3_
REFERENCE No	H9918

	JECT ATION				BHWAY BRIDGE DUPLICATION - HOUGHTO I STH FROM EASTN PILE OF PIER 9 OF EX						
					SURFACE R.L0.75 PLUNGE			DATE STARTED			
JOB I					HEIGHT DATUM _AHD BEARING						
O DEPTH (m)	R.L. (m) -20.75	CASING WASH BORING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	ПТНОСОСУ	USC	INTACT DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES
	-21. <u>45</u>				ALLUVIAL GRAVELLY SAND (As above.) (Driller's record only.) SANDSTONE		(SP)	+			
-21				L	FINE TO MEDIUM GRAINED, LAMINATED, POORLY CEMENTED SEDIMENTARY ROCK HW: Pale grey brown to pale orange, moist, very dense silty sand with some relic rock structures and low strength rock kernels.		НW	† † † † † † †		6,19,30/100 N>50	SPT
- 23 -	-23.75			□ N /⊡	MUDOTONE (O)			‡ ‡		30/75 N>50	SPT
					MUDSTONE (?) HW: Dark grey, dry, hard silty clay with frequent relic rock structures.		нw			Diada bil asfural andara	
-24	-24.85			N	Borehole terminated at 24.1m	:::				Blade bit refusal on top 23,30/90 of MW bedrock at 24.1m. N>50	SPT
25								; ; ; ; ; ; ;			
ŀΙ								† † † † †			
- -27								† + + + + + +			
-26 27 27 28 29								† † † † † †			
29								† † † † † † † † † † † † † † † † † † †			
	EMARKS									LOGGED BY BW / ADISS	