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BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH57

SHEET 1 OF 1

Client: QUEENSLAND MAIN ROADS
Project: TUGUN BYPASS GEOTECHNICAL INVESTIGATION
Borehole Location: Cut; Chainge 997 (MC11); 21.6m left of centreline;
Project Number: 2134070C

Date Commenced: 13/5/05
Date Completed: 13/5/05
Recorded By: HEB
Log Checked By: DAN

Drill Model/Mounting: LEWIS 350 TRACKED RIG Hole Angle: 90° Surface RL: 10.5 m AHD
Borehole Diameter: 100 mm Bearing: -- Co-ords: E 47601.3 N 89995.6 PMG

Borehole Information								Field Material Description					
1	2	3	4	5	6	7	8	9		10	11	12	13
METHOD	SUPPORT	WATER	RL(m) AHD	DEPTH(m)	FIELD TEST	SAMPLE	GRAPHIC LOG	USC SYMBOL	SOIL/ROCK MATERIAL FIELD DESCRIPTION	MOISTURE	RELATIVE DENSITY / CONSISTENCY	HAND PENETROMETER (kPa)	STRUCTURE AND ADDITIONAL OBSERVATIONS
TC								CL	Sandy CLAY: medium plasticity, red-brown, fine to coarse grained sand, trace of fine gravel.	MC<PL	VS FB VL L ST D H VD		RESIDUAL SOIL LL=30.4% PI=11.4% LS=7.6% WPI=1007 WLS=671 % passing 0.425mm=88% % passing 0.075mm=65%
WB	M			1.50	5,11,12 N=23	SPT			GREYWACKE: fine to coarse grained, mottled grey, red-orange and orange with black staining, extremely weathered with the consistency of low to medium plasticity sandy clay with fine grained sand and a trace of highly weathered gravel fragments, extremely low to very low strength, occasional argillite interbeds.			>600	WEATHERED ROCK LL=35.2% PI=16.8% LS=5.4% Emerson No.=5
				2					... becoming grey with red orange and orange mottles, change in consistency to sandy clay with fine to coarse grained sand and a trace of fine quartz gravel.			>600	LL=39.8% PI=21.6% LS=11.6% WPI=1961 WLS=1053 Emerson No.=6 % passing 0.425mm=91% % passing 0.075mm=63%
				3	8,12,19 N=31	SPT							
				4									
				5	9,12,15 N=27	SPT							
				6					...less gravel than above.				
				7	19,25 /125mm	SPT							LL=25.4% PI=7.4% LS=5.4% WPI=679 WLS=495 Emerson No.=6 % passing 0.425mm=92% % passing 0.075mm=54%
				8					...change in consistency to a clayey sand with fine grained sand and no gravel. Occasional low strength iron stained bands.				
				9	17 /70mm	SPT							
				10					...a few argillite interbeds with the consistency of high plasticity silty clay.				LL=32.0%, PI=16.0%, LS=9.2%
				11	19 /135mm	SPT			END OF BOREHOLE AT 9.13 m				

This borehole log should be read in conjunction with Parsons Brinckerhoff's accompanying standard notes.