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BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH62

SHEET 1 OF 3

Client:	QUEENSLAND MAIN ROADS	Date Commenced:	7/7/05
Project:	TUGUN BYPASS GEOTECHNICAL INVESTIGATION	Date Completed:	8/7/05
Borehole Location:	Cut; Chainage 2140 (MC11); on centreline;	Recorded By:	AO
Project Number:	2134070C	Log Checked By:	DAW

Drill Model/Mounting:	EAZE-CAT TRACKED RIG	Hole Angle:	90°	Surface RL:	37.3 m AHD
Borehole Diameter:	80 mm	Bearing:	---	Co-ords:	E 48217.2 N 89163.6 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	C	OW						CL	Silty CLAY: medium plasticity, red brown, some fine to coarse grained sand and gravel throughout.				RESIDUAL SOIL
			37										
			1.00	36	SPT 10,15,11 N=26	SPT			GREYWACKE: fine to medium grained, brown, highly weathered, very low to low strength. ...1.40-1.50m: Extremely weathered, extremely low strength argillite band, pale grey. mostly stained red-brown.				WEATHERED ROCK Slight foliations visible. LL=24% PI=6% WPI=210 Emerson No.=5 % passing 0.425mm=38% % passing 0.075mm=18%
			2	35									
WB	Nil		2.70	3	SPT 22,30 /60mm	SPT			ARGILLITE: grey, mostly stained orange-brown and red-brown, highly weathered, very low to low strength, trace of fine grained greywacke interbeds.				
				34									
				4	SPT 30 /100mm	SPT							Foliated, 80° planar defects. LL=34% PI=15% WPI=420 Emerson No.=5 % passing 0.425mm=28% % passing 0.075mm=18%
				33									
				5									
				32	SPT 30 /60mm	SPT			GREYWACKE: fine grained, grey-brown, some red-brown iron staining, moderately weathered, medium strength.				Highly fractured.
			5.50	6									
				31									
				7					REFER TO CORED BOREHOLE LOG				
				30									
				8									
				29									
				9									
				28									

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



CORED BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH62

SHEET 2 OF 3

Client: QUEENSLAND MAIN ROADS

Project: TUGUN BYPASS GEOTECHNICAL INVESTIGATION

Borehole Location: Cut; Chainage 2140 (MC11); on centreline;

Project Number: 2134070C

Date Commenced: 7/7/05

Date Completed: 8/7/05

Recorded By: AO

Log Checked By: *DAW*

Drill Model/Mounting: EAZE-CAT TRACKED RIG

Hole Angle: 90°

Surface RL: 37.3 m AHD

Borehole Diameter: 80 mm

Bearing: ---

Co-ords: E 48217.2 N 89163.6 PMG

Borehole Information						Field Material Description						
1	2	3	4	5	6	7	8	9	10	11	12	
METHOD	SUPPORT	WATER	CORE RECOVERY	RQD	RL(m) AHD	DEPTH(m)	GRAPHIC LOG	SOIL/ROCK MATERIAL FIELD DESCRIPTION	WEATHERING	INFERRED STRENGTH (kN/50) MPa	AVERAGE DEFECT SPACING mm	STRUCTURE AND ADDITIONAL OBSERVATIONS
									0.03 0.1 0.3 1 3 10 EL VL L M H VH EH	30 100 300 1000 3000		
						37						
						1						
						36						
						2						
						35						
						3						
						34						
						4						
						33						
						5						
						32						
						6						
						31						
								COMMENCE CORING AT 6.76 m				
NMLC	Nil				30	7		CORE LOSS GREYWACKE: fine to medium grained, pale grey, mostly stained orange-brown, ...6.79-7.24m: Silicified/quartz cemented band. ...7.24-7.34m: Argillite band. ...7.34-7.75m: fine grained greywacke band. ...7.75-8.22m: coarse grained greywacke band. ...fine to medium grained greywacke.	MW			6.82m: J, sub-horizontal, smooth, planar. 6.95m: 10° - 40° J, irregular, Fe-stained. 7.00m: J, sub-horizontal, undulating. 7.14m: 40° J, fairly planar, rough. 7.24-7.34m: broken zone. 7.24 to 7.40m: 80° J, undulating, smooth. 7.58m: 65° J, planar, rough, Fe-stained. 7.89m: 70° J, planar, smooth, Fe-stained. 7.96m: J, sub-horizontal, planar, smooth, Fe-stained. 8.21m: J, sub-horizontal, irregular, rough, Fe-stained. 8.39m: 65° B, planar, smooth, Fe-stained. 8.48m: 50° - 60° B, undulating, Fe-stained. 8.74m: J, sub-horizontal, irregular, rough, Fe-stained. 8.85m: 50° J, planar, smooth, Fe-stained. 8.97m: J, sub-horizontal, planar, Fe-st. 9.06-9.15m: 2x40° J's, planar, fairly smooth, Fe-stained. 9.31m: 35° J, planar, smooth, Fe-stained. 9.39-9.45m: Broken zone. 9.52m: 40° J, planar, Fe-staining, smooth.
			97	67	29	8						
			100	31	28	9						
			100	50								
			100	26								

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

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Project: Tugun Bypass Geotechnical Investigation
Borehole: BH62
Start Depth: 6.76m
Finish Depth: 11.86m

