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BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH35

SHEET 1 OF 4

Client: QUEENSLAND MAIN ROADS
Project: TUGUN BYPASS GEOTECHNICAL INVESTIGATION
Borehole Location: Hidden Valley Bridges; Abutment B RHS;
Project Number: 2134070C

Date Commenced: 27/6/05
Date Completed: 6/7/05
Recorded By: AO
Log Checked By: *DAW*

Drill Model/Mounting: EAZE-CAT TRACKED RIG Hole Angle: 90° Surface RL: 30.1 m AHD
Borehole Diameter: 80 mm Bearing: --- Co-ords: E 48091.4 N 89211.4 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	STRUCTURE AND ADDITIONAL OBSERVATIONS
TC	C	OWG-TIZ	30					CH	Silty CLAY: medium plasticity, brown, some gravel, plant roots.	M	VS FB S VL L MD ST D VST H VQ	RESIDUAL SOIL
			0.60						ARGILLITE: pale grey with orange and orange-brown staining, some greywacke interbeds throughout, extremely weathered with the consistency of silty clay, extremely low strength, trace of fine sand and plant roots.	D		WEATHERED ROCK
			29		SPT 9,10,10 N=20	SPT						45° and 65° joints visible.
			28									
			2.65		SPT 18,28,23 N=51	SPT			ARGILLITE: pale grey with orange and orange-brown staining, some greywacke interbeds throughout, highly weathered, very low strength, trace of plant roots.			45° and 65° joints visible.
			27									
			26		SPT 16,17,23 N=40	SPT			... no plant roots, numerous fine grained greywacke interbeds.			
			25									
			24		SPT 30 /75mm	SPT			... completely stained orange-brown throughout the rock mass.			Thinly foliated.
			23		SPT 25,30 /100mm	SPT			... becoming pale purple.			Thinly foliated.
WB	Nil		22									
			21		SPT 30 /110mm	SPT			... becoming pale purple with orange staining.			Thinly foliated. 20°-30° joints visible.

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



BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH35

SHEET 2 OF 4

Client:	QUEENSLAND MAIN ROADS	Date Commenced:	27/6/05
Project:	TUGUN BYPASS GEOTECHNICAL INVESTIGATION	Date Completed:	6/7/05
Borehole Location:	Hidden Valley Bridges; Abutment B RHS;	Recorded By:	AO
Project Number:	2134070C	Log Checked By:	CAW

Drill Model/Mounting:	EAZE-CAT TRACKED RIG	Hole Angle:	90°	Surface RL:	30.1 m AHD
Borehole Diameter:	80 mm	Bearing:	---	Co-ords:	E 48091.4 N 89211.4 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				
WB			20		SPT 18,24,30 /100mm	SPT			ARGILLITE: pale grey with orange and orange-brown staining, some greywacke interbeds throughout, highly weathered, very low strength, trace of plant roots. (continued) ... becoming pale grey with orange and orange-brown staining. ... becoming pale grey with pale purple and orange-brown staining. ... completely stained pale purple, extremely to highly weathered, extremely low to very low strength. ... becoming pale grey with some orange-brown staining, very low to low strength, approaching moderately weathered.	D			Thinly foliated. 30° joint.				
			19	11													Thinly foliated.
			18	12	SPT 27,30 /75mm	SPT											
			17	13	SPT 28,30 /50mm	SPT											Thinly foliated.
			16	14													
			15	15	SPT 30 /80mm	SPT											Steep thin foliations. 45° and 60° ironstained planar joints visible.
			14	16													
			13	17													
			12	18													
			11	19													
REFER TO CORED BOREHOLE LOG																	

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



CORED BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH35

SHEET 3 OF 4

Client: QUEENSLAND MAIN ROADS

Project: TUGUN BYPASS GEOTECHNICAL INVESTIGATION

Borehole Location: Hidden Valley Bridges; Abutment B RHS;

Project Number: 2134070C

Date Commenced: 27/6/05

Date Completed: 6/7/05

Recorded By: AO

Log Checked By: *dm*

Drill Model/Mounting: EAZE-CAT TRACKED RIG

Hole Angle: 90°

Surface RL: 30.1 m AHD

Borehole Diameter: 80 mm

Bearing: ---

Co-ords: E 48091.4 N 89211.4 PMG

Borehole Information						Field Material Description						
1	2	3	4	5	6	7	8	9	10	11	12	
METHOD	SUPPORT	WATER	CORE RECOVERY	ROD	RL(m) AHD	DEPTH(m)	GRAPHIC LOG	SOIL/ROCK MATERIAL FIELD DESCRIPTION	WEATHERING	INFERRED STRENGTH Is(50) MPa	AVERAGE DEFECT SPACING mm	STRUCTURE AND ADDITIONAL OBSERVATIONS
									0.03 0.1 0.3 1 3 10 30 100 300 1000 3000			
						-20						
						-19						
						-18						
						-17						
						-16						
						-15						
						-14						
						-13						
								</				

Project: Tugun Bypass Geotechnical Investigation
Borehole: BH35
Start Depth: 17.5m
Finish Depth: 24.6m

