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BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH41

SHEET 1 OF 5

Client: QUEENSLAND MAIN ROADS

Project: TUGUN BYPASS GEOTECHNICAL INVESTIGATION

Borehole Location: Airport Tunnel

Project Number: 2134070C

Date Commenced: 10/6/05

Date Completed: 15/6/05

Recorded By: SAM

Log Checked By: DAN

Drill Model/Mounting: HYDRAPOWER SCOUT 250

Hole Angle: 90°

Surface RL: 0.7 m AHD

Borehole Diameter: 100 mm

Bearing: ---

Co-ords: E 50496.8 N 86980.9 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							GP	Sandy GRAVEL: fine to coarse grained gravel, grey, fine to coarse sand.	M			FILL
			0.40	0				SP	SAND: fine to medium, pale brown with a trace of silt, organic matter.	W			ESTUARINE/ FLOODPLAIN/TIDAL DELTA DEPOSITS
				1									Organic matter ends.
WB	M			-1	SPT 2,1,2 N=3	SPT							
				2									
				-2									
				3	SPT 3,4,5 N=9	SPT							% passing 0.425mm=98% % passing 0.075mm=2%
				-3									
				4									
				-4	SPT 1,3,2 N=5	SPT							
				5									
				-5									
				6	SPT 10,12,14 N=28	SPT		SM	Cemented Silty SAND (Coffee Rock): fine to medium grained sand, dark brown.				
				-6									
				7									
				-7	SPT 4,7,13 N=20	SPT							% passing 0.425mm=93% % passing 0.075mm=4%
				8									
				-8									
				9	SPT 1,2,3 N=5	SPT		SP	SAND: fine to medium, pale brown.				
				-9									

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



BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH41

SHEET 3 OF 5

Client: QUEENSLAND MAIN ROADS
Project: TUGUN BYPASS GEOTECHNICAL INVESTIGATION
Borehole Location: Airport Tunnel
Project Number: 2134070C

Date Commenced: 10/6/05
Date Completed: 15/6/05
Recorded By: SAM
Log Checked By: *DAW*

Drill Model/Mounting: HYDRAPOWER SCOUT 250 Hole Angle: 90° Surface RL: 0.7 m AHD
Borehole Diameter: 100 mm Bearing: --- Co-ords: E 50496.8 N 86980.9 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
WB								CH	Sandy CLAY: high plasticity, grey, fine to medium grained sand. (continued)	VS FB VL SL ST LD VST H		
			-20									
			21									
			-21									
			22									
			-22		SPT 5, 8, 12 N=20	SPT						
			23									
			-23									
			24									
			-24									
			25									
			-25		SPT 5, 7, 9 N=16	SPT		CH	CLAY: medium plasticity, white/grey/green, trace fine to medium grained sand.			
			26								150 200 160	RESIDUAL SOIL % passing 0.425mm=98% % passing 0.075mm=93%
			-26									
			27									
			-27									
			28									
			-28		SPT 4, 7, 9 N=16	SPT					170 190 180	
			29									
			-29									

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

Project: Tugun Bypass Geotechnical Investigation
Borehole: BH41
Start Depth: 35.1m
Finish Depth: 38.63m

