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Client: RCP on behalf of the Department of Public Works  
 Project: TANK STREET BRIDGE  
 Borehole Location: Tank Street  
 Project Number: 2132311A

Date Commenced: 25/10/06  
 Date Completed: 25/10/06  
 Recorded By: DM/WJB  
 Log Checked By: *MS*

Drill Model/Mounting: Hydra power scuot  
 Borehole Diameter: 125 mm

Hole Angle: -90°  
 Bearing: ---  
 Surface RL: 14.9 m AHD  
 Co-ords: E 1232.4 N 1307.2

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	Nil																	
WB	M	m/s	0.10 0.30	1	SPT 14,25,30 /150mm	SPT		SC	Asphalt Pavement:(100 mm thick) FILL (Sandy GRAVEL):fine to coarse grained, dark orange Clayey SAND / Sandy CLAYfine to coarse grained, low to medium plasticity, orange brown and grey	D			FILL					
					RESIDUAL SOIL													
						HW casing installed to 3.0 m for WB												

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



# BOREHOLE ENGINEERING LOG

BOREHOLE NO.

**BH06**

SHEET 2 OF 4

Client: RCP on behalf of the Department of Public Works  
Project: TANK STREET BRIDGE  
Borehole Location: Tank Street  
Project Number: 2132311A

Date Commenced: 25/10/06  
Date Completed: 25/10/06  
Recorded By: DM/WJB  
Log Checked By: *DM*

Drill Model/Mounting: Hydra power scuot  
Borehole Diameter: 125 mm

Hole Angle: -90°  
Bearing: ---  
Surface RL: 14.9 m AHD  
Co-ords: E 1232.4 N 1307.2

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
										VS FB VL L J MD ST D VST D H VD			
WB				10.20	SPT 6.41 /150mm	SPT		CH	GREYWACKE: fine grained, pale grey-brown, extremely to highly weathered, extremely low to very low strength, well developed foliation dips 60°.				WEATHERED ROCK
				11									
				12	SPT 30 /50mm	SPT			REFER TO CORED BOREHOLE LOG				
				13									
				14									
				15									
				16									
				17									
				18									
				19									

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# CORED BOREHOLE ENGINEERING LOG

BOREHOLE NO.

**BH06**

SHEET 3 OF 4

Client: RCP on behalf of the Department of Public Works  
Project: TANK STREET BRIDGE  
Borehole Location: Tank Street  
Project Number: 2132311A

Date Commenced: 25/10/06  
Date Completed: 25/10/06  
Recorded By: DM/WJB  
Log Checked By: *[Signature]*

Drill Model/Mounting: Hydra power scuot  
Borehole Diameter: 125 mm

Hole Angle: -90°  
Bearing: ---

Surface RL: 14.9 m AHD  
Co-ords: E 1232.4 N 1307.2

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 EL VL L M H VH EH	10 30 100 300 1000 3000		
						11						
								COMMENCE CORING AT 11.55 m				
NMLC	Nil					12		NO CORE				NW casing installed to 10.3 m for NMLC
			66	0		12.10		GREYWACKE: fine grained, pale grey-brown, well developed foliation 60°	MW			12.2 - J@20°, U,R 12.37 - J@80°, U,R 12.44 - J@0°, P,R, 3 mm clay seam 12.59 - J@50°, (quartz seam) 12.59 to 12.83 - highly fractured zone 12.83 to 13.0 - fragmented (fragmented with residual soil)
						13			XW HW			13.4 to 13.5 fragmented
						13.50 13.60		NO CORE				13.5 - DB
			92	23		14		GREYWACKE: fine grained, grey brown, well developed foliation dip 60 to 75 degrees.	MW			13.6 to 13.7 - fragmented 13.76 J@30°, U,R 13.81 to 13.94 - highly fractured zone 13.94 - J@30°, U,R 14.0 - J@5°, U,R 14.08 - crushed seam, 5° 14.12 - J@25° P,R 14.31 - J@20°, U,R 14.36 - crushed seam, 5° 14.41 - J@60° P,R, thinly clay coated 14.63 - J@5°, U,R 14.68 - J@70° P,R 14.82 - J@70° P,R Fragmented zone 15.0 to 15.1 - highly fractured zone 15.05 to 15.5 - J@90°, C,R, iron stained 15.05 - J@50° P,R, iron stained 15.28 - J@J@5°, I,R, clean 15.38 - J@10° P,R, iron stained 15.48 - J@15° P,R, iron stained 15.5 to 16.33 - highly fractured zone 16.05 - J@10° I,R, clean 16.06 - J@80° C,R, iron stained 16.45 - J@10° I,R, clean 16.56 - J@20° P,R, iron stained 16.6 to 17.0 - highly fractured zone 17.05 - J@50° P,R, clean 17.13 - J@10° I,R, clean 17.15 - J@60° P,R, clean 17.43 - J@50° P,R, clean 17.54 - J@0° P,R, clean 17.62 - J@30° I,R, clean 17.7 - J@5° I,R, clean 17.8 - J@30° I,R, clean 18.0 - J@40° I,R, iron stained 18.05 to 18.1 - core non intact 18.5 - J@10° P, iron stained 18.55 to 18.85 - hair line joint @80° 18.65 - J@30° P,R, infilled with coarse sand (5 mm thick) 18.9 - J@60° I,R, iron stained 19.1 m, 19.15 m and 19.35 m: J@10° P,R, iron coated 19.4 m and 19.5 m: J@60° P,R, iron stained 19.55 - J@60° P,R, clean 19.6 - J@10° I,R, clean
			100	8		15						
			100	16		16						
			100	50		17						
						18						
						19						

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# CORED BOREHOLE ENGINEERING LOG

BOREHOLE NO.

**BH06**

SHEET 4 OF 4


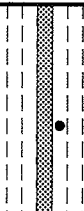
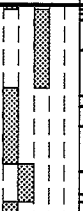

Client: RCP on behalf of the Department of Public Works  
Project: TANK STREET BRIDGE  
Borehole Location: Tank Street  
Project Number: 2132311A

Date Commenced: 25/10/06  
Date Completed: 25/10/06  
Recorded By: DM/WJB  
Log Checked By: *PLS*

Drill Model/Mounting: Hydra power scuot  
Borehole Diameter: 125 mm

Hole Angle: -90°  
Bearing: ---

Surface RL: 14.9 m AHD  
Co-ords: E 1232.4 N 1307.2

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 Is(50) MPa	AVERAGE DEFECT SPACING mm	STRUCTURE AND ADDITIONAL OBSERVATIONS
NMLC			100	46				GREYWACKE fine grained, grey brown, well developed foliation dip 60 to 75 degrees. (continued)	MW			19.75 - J@60° 19.8J@40°, I, clean 19.9 - J@50°, P, R, iron stained 20.03 - J@10°, P, R, iron stained 20.06 - J@20°, P, R, iron stained 20.1 - weathered seam, 10 mm thick, iron stained 20.3 - J@10°, Ir, R, clean 20.38 m, 20.44 m and 20.48 m: J@60°, Ir, R, iron stained 20.6 - J@50°, P, R, iron stained
			100	21		21		END OF BOREHOLE AT 21.40 m				20.67 to 21 - core non intact 20.8 - J@50°, P, R, iron coated 21.1 - J@80°, P, R, infilled with coarse grained sand 21.25 sheared zone, 30 mm thick 21.3 to 21.4 - core non intact
						22						
						23						
						24						
						25						
						26						
						27						
						28						
						29						

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