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BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH05A

SHEET 1 OF 4

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

Date Commenced: 26/10/06
Date Completed: 26/10/06
Recorded By: WJB
Log Checked By: *[Signature]*

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

Hole Angle: -90° Surface RL: 11.0 m AHD
Bearing: --- Co-ords: E 1180.7 N 1257.9

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	Nii	m						SP	FILL (Silty Gravelly SAND)coarse grained, brown, fine grained gravel, low plastic fines	D	VS FB VL L MD ST VST H VD		FILL
WB	M	O											HW casing installed to 2.5 m for WB
				3.60	SPT 30 /100mm	SPT			ARGILLITE:fine grained, grey-brown, extremely weathered, extremely low strength.				WEATHERED ROCK
													quartz vein
					SPT 30 /60mm	SPT			REFER TO CORED BOREHOLE LOG				NW casing installed to 5.5 m for NMLC
													no spt recovery

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

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CORED BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH05A

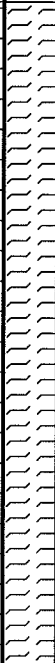






SHEET 2 OF 4

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

Date Commenced: 26/10/06
Date Completed: 26/10/06
Recorded By: WJB
Log Checked By: *[Signature]*

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

Hole Angle: -90°
Bearing: ---
Surface RL: 11.0 m AHD
Co-ords: E 1180.7 N 1257.9

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
									0.03 0.1 0.3 1 3 10			
									EL VL L M H VH EH	10 30 100 300 1000 3000		
						1						
						2						
						3						
						4						
						5						
								COMMENCE CORING AT 5.56 m				
NMLC	Nil		100	0		6		ARGILLITE: fine grained, grey brown, highly to slightly weathered, very low to medium strength.	MW			core barrel jamming in hole at 4 m
			100	0		7						
			100	0		8						
			100	0		9			HW-MW			
									SW			9.55 - J@55° P,R, dark stained 9.65 - J@50° P,R, dark stained 9.8 - weathered boundary 55° dip

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CORED BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH05A

SHEET 3 OF 4

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

Date Commenced: 26/10/06
Date Completed: 26/10/06
Recorded By: WJB
Log Checked By:

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

Hole Angle: -90°
Bearing: ---

Surface RL: 11.0 m AHD
Co-ords: E 1180.7 N 1257.9

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
NMLC			100	100	10.00			ARGILLITE: fine grained, pale greenish grey, numerous quartzite feldspathic bands 0.5 to 0.8 mm thick, dip 65 to 75, extremely weathered to fresh, extremely low to very high strength.	SW	0.03 0.1 0.3 1 3 10	10 30 100 300 1000 3000	
			100	76		11						10.92 to 10.96 - weathered joint @ 60°, infilled and iron stained 11.06 - J@15°, I,R, clean
			100	76		12						11.5 - J@5°, I,R, clean 11.59 to 11.67 - crushed seam
			100	76		13			HW XW XW SW			12.01 - J@55°, U,R, iron stained 12.15 - J@45°, P,S, dark stained 12.5 - J@0°, I,R, clean 12.56 - J@45°, P, clean 12.8 to 13.36 - highly fractured zone
			100	87		14			FR			13.54 - J@45°, St,R, clean 13.7 - J@20°, I,R, iron stained
			100	87		15						14.17 - J@60°, P,R, clean 14.44 - J@20°, I,R, clean 16.65 - J@10°, P,R, clean
			100	100		16						15.25 - J@20° P,R, clean 15.35 - J@60°, I,R, iron stained
			100	100		17						16.05 - J@55° P,R, iron stained 16.1 - 16.16 highly weathered seam 16.24 - J@15° C,R, clean 16.47 - J@60° C,R, clean 16.64 - J@45° I,R, clean
			100	100		18						17.05 - J@5° P,R, iron stained 17.38 - J@45° St,R, iron stained 17.55 - J@30° P,R, iron stained
			100	100		19						17.89 - J@10° P,R, iron stained 18.15 - J@50° I,R, iron stained 18.23 - J@45° I,R, iron stained 18.35 - J@60° P,R, clean 18.58 - J@10° P,R, iron stained
			100	100								18.94 - J@45° U,R, iron stained 19.05 - J@65° P,R, iron stained 19.4 - J@60° P,R, iron stained 19.47 - J@45° St,R, iron stained 19.74 - J@70° U,R, dark stained

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CORED BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH05A

SHEET 4 OF 4

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

Date Commenced: 26/10/06
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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	100				ARGILLITE: fine grained, pale greenish grey, numerous quartzite feldspathic bands 0.5 to 0.8 mm thick, dip 65 to 75, extremely weathered to fresh, extremely low to very high strength.(continued)	FR	0.03 0.1 0.3 1 3 10	10 30 100 300 1000 3000	
						21						20.55 - J@60°,P,R,iron stained
						22						21.57 - J@80°,I,R,iron stained 21.9 - J@30°,C,R,iron stained
						23			XW MW FR			22.42 - J@70°,I,R,iron stained
			100	90		24			MW FR			22.82 - 22.84 - clayey sand infill on fracture zone 23.4 - J@70°,U,R,iron stained 23.46 - J@0°,I,R,clean 23.7 - J@70°,I,R,clean
						25		END OF BOREHOLE AT 25.00 m				24.1 - J@50°,P,R,clean 24.48 - J@60°,P,R,clean 24.6 - J@50°,P,R,clean 24.66 - J@20°,P,R,clean 24.8 - J@35°,P,R,clean 24.86 - J@10°,P,R,clean
						26						
						27						
						28						
						29						

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