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BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH02

SHEET 1 OF 4

Client:	RCP on behalf of the Department of Public Works	Date Commenced:	23/10/06
Project:	TANK STREET BRIDGE	Date Completed:	24/10/06
Borehole Location:	Kurilpa Park	Recorded By:	WJB
Project Number:	2132311A	Log Checked By:	<i>[Signature]</i>

Drill Model/Mounting:	Hydra power scout	Hole Angle:	-90°	Surface RL:	4.5 m AHD
Borehole Diameter:	125 mm	Bearing:	---	Co-ords:	E 944.6 N 1172.2

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 MD S.F. ST VST D H VD			
TC	Nil			0.10			[Cross-hatched pattern]	SP	Silty SAND: fine grained sand, dark brown, some organics (root hairs)				TOPSOIL
				1.00	SPT 3,3,3 N=6	SPT	[Cross-hatched pattern]	SP	FILL (Silty/Clayey/Gravelly SAND): fine grained sand, dark brown, medium to coarse grained gravel, low plastic fines. ... brown				FILL
				1.80			[Cross-hatched pattern]	CL	FILL (Sandy CLAY): low plasticity, dark brown, fine to medium grained sand, petroleum smell				CONTAMINATED FILL
WB	M			2.00	SPT 2,3,3 N=6	SPT	[Cross-hatched pattern]	MC<PL					HW casing installed to 2.5 m for wash boring
				3.20			[Dotted pattern]	CH	Sandy CLAY: high plasticity, dark grey, coarse grained sand				ALLUVIUM
				4.30			[Dotted pattern]	U50					sand in base of U50
				4.30			[Dotted pattern]	SP	Silty SAND: fine to coarse grained, dark grey				clean sand lense
				5.00			[Dotted pattern]						drilling fluid
				5.20			[Dotted pattern]	CH	Silty CLAY: high plasticity, dark grey with some brown staining				U50 pushed in by hand
				6.70			[Dotted pattern]	U50					
				6.70			[Dotted pattern]	SP	SAND: coarse grained, grey				
				7.10	SPT 0,0,0 N=0	SPT	[Dotted pattern]	CH	Silty CLAY: high plasticity, dark grey, trace of coarse grained sand, trace of organic material, small amounts of brown staining				SPT - under weight of hammer
				8.00			[Dotted pattern]						
				9.00	SPT 0,0,0 N=0	SPT	[Dotted pattern]						SPT - under weight of hammer

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



BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH02

SHEET 2 OF 4

Client: **RCP on behalf of the Department of Public Works** Date Commenced: **23/10/06**
 Project: **TANK STREET BRIDGE** Date Completed: **24/10/06**
 Borehole Location: **Kurilpa Park** Recorded By: **WJB**
 Project Number: **2132311A** Log Checked By: *[Signature]*

Drill Model/Mounting: **Hydra power scout** Hole Angle: **-90°** Surface RL: **4.5 m AHD**
 Borehole Diameter: **125 mm** Bearing: **---** Co-ords: **E 944.6 N 1172.2**

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 JL MD ST D VST D H VD			
WB				0.0	SPT 0,0,0 N=0	SPT		CH	Silty CLAY: high plasticity, dark grey, trace of coarse grained sand, trace of organic material, small amounts of brown staining (<i>continued</i>)				
				11					...silty sand lense				
				11.40				SP	SAND: coarse grained, brown				drill rods hit on a harder base when dropped during drill rod change
				12	SPT 7,5,4 N=9	SPT			... few silty bands				
				13									
				13	SPT 7,7,10 N=17	SPT			... increase in sand coarseness				
				14.04				CH	Silty CLAY: high plasticity, dark grey				
				15.04		U50						90	U50 pushed in by hand
				15.04				CH	Sandy CLAY: high plasticity, grey				
				15.80				SP	SAND: coarse grained, grey				
				16	SPT 6,6,5 N=11	SPT							
				17									
				18	SPT 3,5,5 N=10	SPT							
				19									
				19	SPT 7,8,7 N=15	SPT							

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

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BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH02

SHEET 3 OF 4

Client: **RCP on behalf of the Department of Public Works** Date Commenced: **23/10/06**
 Project: **TANK STREET BRIDGE** Date Completed: **24/10/06**
 Borehole Location: **Kurilpa Park** Recorded By: **WJB**
 Project Number: **2132311A** Log Checked By: *[Signature]*

Drill Model/Mounting: **Hydra power scout** Hole Angle: **-90°** Surface RL: **4.5 m AHD**
 Borehole Diameter: **125 mm** Bearing: **---** Co-ords: **E 944.6 N 1172.2**

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 SL L MD ST D VST H VD			
WB								SP	SAND: coarse grained, grey (<i>continued</i>)				
				21	SPT 9,10,9 N=19	SPT							
				22	SPT 6,6,5 N=11	SPT							
				23									
				24	SPT 7,8,7 N=15	SPT							
				24.40				GP	GRAVEL: fine to medium grained, brown				
				25	SPT 8,10,10 N=20	SPT							drilling mud being lost rapidly liquid drilling mud added
				25.45				CH	Sandy CLAY: high plasticity, brown, coarse grained sand				no spt recovery
				26									
				26.30				GP	GRAVEL: fine to coarse grained, brown				drill rods rattling spt abandoned due to hole cave in
				27.027				GW	Sandy GRAVEL: fine to coarse grained, orange brown, coarse grained sand				liquid drilling mud added
				28									spt abandoned due to fall in NW casing installed to 28 m
				29	SPT 24,30 /135mm	SPT							smaller blade bit used to fit inside NW casing
													approaching drilling refusal

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BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH02

SHEET 4 OF 4

Client: **RCP on behalf of the Department of Public Works** Date Commenced: **23/10/06**
 Project: **TANK STREET BRIDGE** Date Completed: **24/10/06**
 Borehole Location: **Kurilpa Park** Recorded By: **WJB**
 Project Number: **2132311A** Log Checked By: *[Signature]*

Drill Model/Mounting: **Hydra power scout** Hole Angle: **-90°** Surface RL: **4.5 m AHD**
 Borehole Diameter: **125 mm** Bearing: **---** Co-ords: **E 944.6 N 1172.2**

Borehole Information						Field Material Description							
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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 MD ST D H VD			
WB				31				GW	Sandy GRAVEL: fine to coarse grained, orange brown, coarse grained sand <i>(continued)</i>				<ul style="list-style-type: none"> approaching drilling refusal 1.2 m of gravel fall in - spt abandoned NW casing refusal at 31 m liquid mud added medium sized gravel in mud several attempts made to drill between 31 and 34.4m with different drill bits NW casing advanced to 31 m large amounts of fall in, drilling fluid loses drilling went smooth
				34					END OF BOREHOLE AT 34.40 m				<ul style="list-style-type: none"> drilling refusal at 34.4 m, hydraulic legs off ground, refusal on rock or a boulder BH02 abandoned and planned to be redrilled with a bigger rig
				35									
				36									
				37									
				38									
				39									

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