

4120460 well 10375

 Wellington Office PO Box 12-003 Wellington, NZ Tel: +64 4 471 7000 Fax: +64 4 471 1201 www.opus.co.nz		BOREHOLE LOG						HOLE NO. BH206	
PROJECT Blenheim Urban Growth Study - Stage 2				CO-ORD. 1676940 E 5405020 N		R.L. 11 m		SHEET 1 of 1	
LOCATION Rene Street				REF. GRID NZ Transverse Mercator		DATUM MSL		HOLE LENGTH 10.45 m	

GEOLOGY/UNIT	MAIN DESCRIPTION	R.L. (m)	DEPTH (m)	GRAPHIC LOG	TESTS		ROCK STRENGTH	ROCK WEATHERING	DEFECT SPACING	DIP 0 degrees 90	DETAILED DESCRIPTION	CORE			DRILLING				PIEZOMETER DETAILS	OTHER INSTRUMENTATION	
					SPT 'N' VALUE	SPT BLOW COUNTS OR SHEAR VALUE						RQD (%)	TOTAL CORE RECOVERY (%)	SAMPLE TYPE	DRILLING METHOD	DRILLING FLUID LOSS	CASING	BASE OF HOLE & WATER LEVEL			
Rapaura Formation	Gravelly SILT; brown, soft, dry.	-10	1		50+	8/15/15/ 18/19 = 40mm						Gravel is uniformly graded up to 1cm, subrounded.				Hand Dug					
	Gravelly SILT with some clay; yellowish brown, very dense, moist.	-8	2		35	6/9/7/11/ 8/9						Gravel is uniformly graded up to 2cm, subrounded.				SPT					
	Sandy silty GRAVEL; dark brown, dense, wet to saturated.	-6	3		26	3/4/1/5/8/ 7/6						Gravel is well graded to 3cm, subrounded to subangular. Sand is coarse grained.				DHH					
	Becomes medium dense.	-5	4		7	5/3/1/11/11/4										SPT					
	Becomes loose.	-4	5		41	6/8/9/10/ 11/11										DHH					
	Becomes dense.	-3	6		50+	20/20 = 35mm						SPT bouncing. Sand is coarse grained.				SPT					
	SAND; dark brown, very dense, moist.	-2	7		36	5/7/7/7/ 10/12						Gravel is well graded to 3cm, subrounded to subangular. Sand is coarse grained.				DHH					
Sandy GRAVEL; dark brown, dense wet.	-1	8		31	3/4/4/5/ 9/12										SPT						
		0	9		46	2/6/1/5/7/ 11/20										DHH					
		-1	10													SPT					
		-2	11																		
		-3	12																		
		-4	13																		
		-5	14																		
		-6	15																		
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		-10	19																		
		-11	20																		
		-12	21																		
		-13	22																		
		-14	23																		
		-15	24																		

NOTES Groundwater level at end of drilling 3.0 m HD: Hand Dug BS: Bulk Sample PT: Push Tube Sample DHH: Down Hole Hammer SPT: Standard Penetration Test		STARTED 19/12/2012	FINISHED 19/12/2012
		DRILLER Barclay Moir	DRILLING CO. CW Drilling & Exploration Ltd
		INCLINATION/ AZIMUTH -90°	DRILLING RIG MP100
		LOGGED Allannah Morpeth	CHECKED Doug Mason
LOGGED IN ACCORDANCE WITH NZ GEOTECHNICAL SOCIETY (2005) GUIDELINES		CLIENT Marlborough District Council	JOB NO. 5C2128.01
		BH206	

BOREHOLE LOG A3 5C2128.01 BLENHEIM URBAN GROWTH STUDY STAGE 2.GPJ OPUS WLG REV090325.GDT 19/02/13

CLIENT Opus International ConsultantsPROJECT NAME Blenheim Urban Growth StudyPROJECT NUMBER BH#206

PROJECT LOCATION _____

DATE STARTED 19/12/12COMPLETED 19/12/12

GROUND ELEVATION _____

HOLE SIZE 125DRILLING CONTRACTOR CW Drilling

GROUND WATER LEVELS:

DRILLING METHOD Concentrix

AT TIME OF DRILLING _____

LOGGED BY Barclay MorCHECKED BY James Chapman▼ AT END OF DRILLING 3.00 mNOTES Geotech Bore

AFTER DRILLING _____

DEPTH (m)	SAMPLE TYPE NUMBER	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION
		Bore abandoned hole backfilled upon completion		Brown silt/topsoil
2		SPT@2.0m 8,15,15,18,17 for 40mm		1.50 1.70 Brown silty clay
		SPT@3.0m 6,9,7,11,8,9		Poorly Sorted Gravels
4		SPT@4.0m 3,4,5,8,7,6		3.50 ▼ Well sorted Gravels, silty sandy
6		SPT@5.0m 6,8,9,10,11,11		4.50 Well sorted silty Gravels
8		SPT@7.0m 20,20 for 35mm bouncing		5.70 Well sorted sandy Gravels
10		SPT@8.0m 5,7,7,7,10,12		
		SPT@9.0m 3,4,4,6,9,12		
		SPT@10m 2,5,8,7,11,20		
				Bottom of hole at 10.00 m

GENERAL NOTE: OPUS INTERNATIONAL CONSULTANTS 2012/12