



CH2M BE&amp;C

## MACHINE BOREHOLE LOG

BOREHOLE No: BH2

SHEET 1 of 2

PROJECT: Blenheim Sewage Pump Station Assessment

JOB NUMBER: 6517838

SITE LOCATION: Blenheim

CLIENT: Marlborough District Council

CIRCUIT: NZTM

BOREHOLE LOCATION: Purkiss St

COORDINATES: N 5,404,153 m  
E 1,678,422 m

R L: 17.93 m

DATUM: Blenheim Borough Datum

U125744.2

DRILLING						IN-SITU TESTS			SAMPLES	DEPTH (m)	GRAPHIC LOG	USCS	MOISTURE	SOIL / ROCK DESCRIPTION	GEOLOGICAL UNIT	RL (m)
FLUID LOSS	WATER LEVEL	CORE RECOVERY	METHOD	ROD	CASING	SV	T <sub>v</sub> (kPa)	SPT N <sub>v</sub>								
	28/3/13 0800	80 %	Sonic											Asphalt (10mm thick) Tightly packed, silty, fine to medium gravelly, fine to coarse SAND, trace coarse gravel; brown; wet. [Basecourse] Dry. Wet.	Pavement	
										1		SM	M	'Firm', silty, fine to medium SAND, minor clay, trace organics; grey; moist, high plasticity. Clay content decreases with depth.		17
												SM	W	'Loose', silty, fine to medium SAND, trace organics; grey; wet.		
												SP	W	'Loose', fine to medium SAND, some to minor silt, trace organics; grey' wet. 30mm thick clayey SILT lense.		
												SM	S	'Loose', silty, fine to medium SAND; grey; saturated.		
										2		SP	S	'Loose', fine to medium SAND, some silt, trace organics; grey; saturated. Interbedded with clayey SILT laminations.		16
														Orange brown.		
										3		SW	W	Medium dense, fine to coarse SAND, trace silt; orange brown; wet.		15
		67 %	SPT									GW	S	Medium dense, fine to coarse sandy, fine to coarse GRAVEL, minor silt, trace cobble; brown; saturated. Gravel: SW, subrounded, greywacke, chert.		
		95 %	Sonic							4						14
														Dense.		
		78 %	SPT							5				Some fine to coarse sand.		13
		95 %	Sonic													
										6				Very dense.		12
		83 %	SPT													
		86 %	Sonic							7		SW	W	Very dense, fine to coarse sandy, fine to coarse GRAVEL, minor silt; grey; wet. Gravel: SW, subrounded, greywacke.		11
		95 %	SPT							8		MH	W	Some clay; high plasticity matrix. Soft, clayey SILT, trace shell fragments; grey; wet, high plasticity. Trace organics; grey speckled brown.		10
		100 %	Sonic													
														Minor fine to medium gravel (subangular).		
														Loose, silty, fine to medium SAND, minor fine to medium gravel; grey; moist.		
														Loose, silty, fine to medium SAND; grey; moist.		
										9				Firm, fine to medium sandy, SILT, minor clay; grey; wet, high plasticity.		9
		100 %	SPT													
														Dense, fine to coarse SAND, trace silt; grey; wet.		
														Dense, fine to coarse sandy, fine to medium GRAVEL, trace silt; grey; wet. Gravel: SW, subrounded, greywacke.		
														Minor silt; orange brown.		
														Dense, fine to coarse GRAVEL, some silt, fine to coarse sand, trace to minor		8

DATE STARTED: 25/3/13

DRILLED BY: Pro-Drill Ltd

COMMENTS:

DATE FINISHED: 26/3/13

EQUIPMENT: Fraste XL2

Co-ordinates from hand held GPS with error +/-3m. Rods 1.52m long. Efficiency of SPT hammer is approximately 80%.

LOGGED BY: GJG

DRILL METHOD: Sonic

SHEAR VANE No:

DRILL FLUID: Water and mud

DIAMETER/INCLINATION: 100 mm / 90°

FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS SEE KEY SHEET

Revision A

MACHINE\_BOREHOLE\_P:\6517838\GE07 GROUND INVESTIGATION\BOREHOLE INVESTIGATION RESULTS\BOREHOLES\GPJ BECA.GDT 24/4/13

A4 Scale 1:50

BOREHOLE No: **BH2**

SHEET 2 of 2

JOB NUMBER: 6517838

CLIENT: Marlborough District Council

BOREHOLE LOCATION: Purkiss St

R L: 17.93 m

DATUM: Blenheim Borough Datum 0120744.2

MACHINE\_BOREHOLE P:6516517838ITGE07 GROUND INVESTIGATION BOREHOLE INVESTIGATION RESULTS BOREHOLES GPJ BECA.GDT 24/4/13

COMMENTS:  
Co-ordinates from hand held GPS with error +/-3m. Rods 1.52m long. Efficiency of SPT hammer is approximately 80%.

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Revision A